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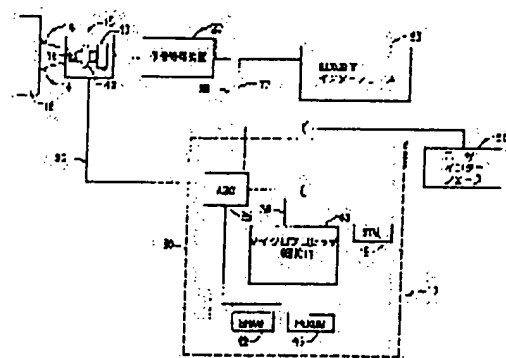
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(54) BAR-CODE READER

(57)Abstract:

PROBLEM TO BE SOLVED: To increase the memory capacity and processing power of a computer resource for reading out PDF 417 bar-code symbol.

SOLUTION: A portable self-standing two-dimensional bar-code reader for PDF 417 bar-code symbol incorporated with a light source 16, photodetector 17, and a decoder 64. The decoder 64 is provided with an 8k-byte SRAM 42 for storing data and a novel 32k-byte PEROM 45 for storing program instruction and the performance of the bar-code reader is improved by DMA-transferring signals to the memories from the photodetector 17. The average electric power consumed by the reader during read-out operation while the light source is turned on is 1.4 watt and that during decoding operation while the light source is tuned off is 0.83 watt. The reader can read out 800 PDF 417 bar-code symbols within about two seconds at the error correcting level '5'.



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CLAIMS

[Claim(s)]

- [Claim 1] The light source which irradiates the two-dimensional bar code symbol (400,500,600) which has encoded data in it (16), The photodetector which generates the signal which answers the light reflected from said two-dimensional bar code symbol (400,500,600) (17), It has the decoder (40 64) connected so that said signal from said photodetector (17) might be received. In the bar code reader of the type it was made to output the signal with which said decoder (40 64) contains the data with which said two-dimensional bar code symbol was decoded The 1st part which has the program (list No.1) which resides permanently in order that said decoder (40 64) may decode a two-dimensional bar code symbol, and which can be performed (45), The bar code reader of the independence type characterized by having the microcomputer (30) which has the memory (42 45) containing the 2nd part (42) for holding data.
- [Claim 2] The bar code reader of the independence type according to claim 1 which contains further the direct memory access channel (48) connected to said memory (42 45) and said photodetector (17).
- [Claim 3] Said two-dimensional bar code symbol (400,500,600) is the bar code reader of the independence type according to claim 2 which is PDF417 symbol.
- [Claim 4] Said microcomputer (30) is the bar code reader of the independence type according to claim 1 which has the address space which does not exceed 64 K bytes.
- [Claim 5] Said 1st part (45) of said memory (42 45) is the bar code reader of an independence type [equipped with the read only memory (45) with the capacity which does not exceed 32 K bytes] according to claim 4.
- [Claim 6] Said 2nd part (42) of said memory (42 45) is the bar code reader of an independence type [equipped with random access memory (42) with the capacity which does not exceed 8 K bytes for data storage] according to claim 4.
- [Claim 7] Said 2nd part (42) is the bar code reader of an independence type [equipped with SRAM] according to claim 6.
- [Claim 8] Said light source (16) is the bar code reader of an independence type [equipped with raster rye gin grazer (116)] according to claim 1.
- [Claim 9] Said photodetector (17) is the bar code reader of an independence type [equipped with the linear CCD array (17)] according to claim 1.
- [Claim 10] Said photodetector (17) is the bar code reader of an independence type [equipped with the two-dimensional CCD matrix (117)] according to claim 1.
- [Claim 11] The light source which irradiates the two-dimensional bar code symbol (400,500,600) which has encoded data in it (16), The photodetector which generates the signal which answers the light reflected from said two-dimensional bar code symbol (400,500,600) (17), It has the decoder (40 64) connected so that said signal from said photodetector (17) might be received. In the bar code reader of the type it was made to output the signal with which said decoder (40 64) contains the data with which said two-dimensional bar code symbol was decoded The 1st memory which stores the program (list No.1) in which the activation for decoding a two-dimensional bar code symbol is possible (45), The microcomputer which has the 2nd memory (42) for storing data (30), It has further the direct memory access channel (48) of said microcomputer (30) which controls storing in said 2nd memory (42) of said signal outputted from said photodetector. Said microcomputer (30) has the address space which does not exceed 64 K bytes. Said 1st memory (45) is a portable hand carry type two-dimensional bar code reader which has the capacity which does not exceed 32 K bytes and is characterized by said 2nd memory (42) having the capacity which does not exceed 8 K bytes.
- [Claim 12] A bar code reader is a portable hand carry type two-dimensional bar code reader according to claim 11 which may not consume from 1.4W on an average, but has the weight which does not exceed 225g during read-out actuation.
- [Claim 13] Said two-dimensional bar code symbol (400,500,600) is a portable hand carry type two-dimensional bar code reader according to claim 11 which is PDF417 symbol.

automatic discernment program for discernment between a linear bar code symbol and PDF417 symbol according to claim 13.

[Claim 15] Said light source (16) is a portable hand carry type two-dimensional bar code reader according to claim 11 which supports the strip by which the field of view of said photodetector (17) was irradiated by irradiating the strip of a two-dimensional bar code symbol.

[Claim 16] Said light source (16) is a portable hand carry type two-dimensional bar code reader [equipped with two or more light emitting diodes] according to claim 11.

[Claim 17] Said light source (16) is a portable hand carry type two-dimensional bar code reader according to claim 11 which is raster yie gin grazer (116).

[Claim 18] Said photodetector (17) is a portable hand carry type two-dimensional bar code reader [equipped with the linear CCD array (17)] according to claim 11.

[Claim 19] Said photodetector (17) is a portable hand carry type two-dimensional bar code reader [equipped with the two-dimensional CCD matrix (117)] according to claim 11.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to a two-dimensional bar code reader. Furthermore, this invention relates to the bar code reader of an independence type like PDF417 which can read thoroughly both a 1-dimensional bar code symbol and a two-dimensional bar code symbol, and can be decoded at a detail.

[0002]

[Description of the Prior Art] The bar code reader of an independence type is well known for this field. The newest example is the model of ST3000 proposed by these people. This kind of bar code reader has the microcomputer [reading / a linear bar code symbol like the UPC code currently used widely at the supermarket or the similar retail store or a code 39 / microcomputer / a scan or reading]. Below, these codes are called a "linear bar code." Moreover, below, "a scan" means detecting existence of a bar code symbol and obtaining the electric display of the optical pattern of the symbol. "Reading" means scanning a symbol, decoding the electric display and generating the information in the standardized format. ASCII is an example of the standardized format in which an output by the decoder is possible. The "independence type" used below does not eliminate the case where it connects with the communication wire to the case where a bar code reader is connected to an external power, or an external host.

[0003] Recently, increasing the content of information of the graphical image like a bar code symbol which a machine can read is proposed very much by encoding data to the two-dimensional bar code symbol by which data are arranged by the train and the line. These codes are often arranged by the matrix-like fixed width-of-face pattern. code one (Code One) -- four command characters and the pad character -- adding -- ASCII -- all -- it is the two-dimensional matrix symbol which can encode 256 characters. This symbol has ten different versions defined with 27-50% of the symbol alphabetic character assigned to error detection and correction. Some versions use the Lead Solomon (Reed-Solomon) error control.

[0004] Other two-dimensional bar code symbols are PDs417. PD417 is explained by Wong's (Wang) U.S. Pat. No. 5,243,655. When it summarizes simply, PD417 is the special two-dimensional (17 4) symbol of the family (n, k) of a bar code. At PD417, a codeword is formed by 17 bits which consists of combination from which Bar of four trains which form many legal patterns, and the tooth space between four trains differ. Each tooth space and the width of face of each bar can change in the unit of the arbitration of 1-6, as long as the total number of unit in a codeword is 17. In PDF417, an exclusive subset or an exclusive cluster is used for three each other of a set of a legal pattern, and each cluster contains 29 codewords. Each of a codeword can be arranged by t sequence (t-sequence), and the map of the pattern within t sequence is carried out to the desired alphabet with a suitable translation table.

[0005] Each line of a PDF symbol is equipped with the codeword chosen from one of the three clusters, and three subsets are periodically used by the line writing direction. The specific cluster to which a codeword belongs can be identified by calculating the discriminator ability shown below.

$(X) = (X1 - X3 + X5 - X7) \bmod 9$, however X are the mark patterns of a codeword, X1, X3, X5, and X7 express the width of face of Bar in the pattern, and it is X2, X6, and X8. The width of face of a tooth space is expressed. Although nine clusters are possible, in PDF417, three [0, 3, and 6], i.e., clusters, are used actually.

[0006] There are a start pattern, a left row indicator codeword, data-code WORD, a right row indicator codeword, and a stop codeword in each line of a PDF symbol. Error correction information can be included in data-code WORD. The line indicator codeword contains the number of the lines in the information about the configuration of a symbol especially a line number, and a symbol, the number of data lines, and the level of security. All these information is included in not all line indicator codewords, and that information is distributed in the shape of a pattern every three lines.

[0007] During a scan, a scanner can identify the cluster of a specific codeword and, as a result, can identify the line

during a scan in the time of the scan shaft having not aligned thoroughly in the line of a symbol. Mapping [in a matrix or memory]-by detection of crossover of line-"SUTITCHINGU of scan (stitching)", i.e., partial row scanning, ** becomes possible. Since data are expressed to redundancy within the symbol, or since an error correction algorithm like the Lead Solomon (Reed-Solomon) code is used, the part which is missing in the matrix completed selectively can be filled by other scan data of a line which is probably completely different. The typical scan SUTITCHINGU method is indicated by U.S. Pat. No. 5,241,164 of pub RIDISU and others (Pavlidiset al.).

[0008] In some conventional techniques, in order to collect data and for this to read from most of all fields, the relative movement between a scanner and a two-dimensional symbol is required. Read-out of PDF417 code may be performed by the learned approach of a single-character single character according to 2 step process. At the first step, the discriminator ability is calculated by a codeword being scanned. The first step is completed by identifying the cluster of a codeword and determining the value of t sequence for the identified cluster. In decoding of the 2nd step or higher level, error detection and correction are performed and the member of the alphabet subsequently encoded within the symbol is obtained from t sequence using a look-up table etc.

[0009]

[Problem(s) to be Solved by the Invention] The current problem in this technical field is that the computer resource which takes the bar code symbol of PDF417 to read within [acceptable] time amount is comparatively large, and needs a bulk memory and a large processing power. generally because of [for work of the calculating machine contained in the error detection and correction of many alphabetic characters (up to 928 characters per one symbol)] the data that the set of an alphabetic character is larger than the usual 8-bit symbol, it is used to decoding of PDF417 -- it is comparatively alike and the complicated computer has the at least 16-bit processor highly. The 16-bit processor is farther [than the 8 bit microprocessor looked at by the portable bar code reader of a commercial scene like above-mentioned ST3000 now] expensive. Furthermore, a 16-bit processor needs mass memory for decoding the symbol of PDF417, and its consumption power is too larger than the practical power in a cheap portable bar code reader. Consequently, in order to complete decoding, the unload of the data which are not decoded needed to be carried out to a remote decoder like a desktop computer, a risk (RISK), or a digital signal processor from the bar code scanner. This needs a communication link further between a decoder and a bar code scanner, in order to perform error detection and correction. Consequently, it is complicated to equip with a portable two-dimensional bar code reader with a cash register or a POS (point of sale) terminal, and it is attached at an expensive price. A facility of many retail stores cannot bear the cost by the hardware of an addition to the tooth space of the addition for a remote decoder, either.

[0010] Therefore, the main object of this invention is offering the bar code reader of the independence type which can read promptly a two-dimensional bar code symbol like PDF417. Other objects of this invention are things which were suited so that a two-dimensional bar code symbol might be scanned and decoded and which offer electronic and the portable hand carry type bar code reader including the description of calculating-machine-structure of a full independence type.

[0011] The object of further others of this invention is to perform efficiently a scan and decoding of a two-dimensional bar code reader symbol using a cheap microcomputer by the minimum memory and small [of power consumption].

[0012]

[Means for Solving the Problem] The above-mentioned object and other objects of this invention suit PDF417 symbol containing the light source, a photodetector, and a decoder and are portable, are hand carry types, and are attained by the two-dimensional bar code reader of an independence type. This decoder had 64 K bytes of address space, and is equipped with the 8-bit microcomputer which uses 8 K bytes of SRAM for data storage, and 32 K bytes of programmable erasable read-only memory (PEROM) for program instruction actually. The engine performance is strengthened by the new program made resident at the PEROM. Housing of this unit is 3 about 19.05x8.82x5.08cm [71/2x31 / 2 x2 legislation inch). It is 212.625g (7.5 unciae), and the weight turns OFF an average of 1.4W and uminescence during a scan during read-out actuation, and is 0.83W during decoding.

[0013] In one mode of this invention, the light source irradiates the narrow strip on a bar code symbol, and the visual field of a photodetector supports the strip. In other modes of this invention, a photodetector is a CCD matrix which acquires the image of the whole bar code symbol. In the mode of further others of this invention, a photodetector is a photodiode and the light source is raster rye gin grazer which scans a symbol in the form of a line writing direction.

[0014]

[Embodiment of the Invention] The example of this invention is explained below at a detail, referring to an attached drawing for a better understanding of the above-mentioned object of this invention, other objects, and many descriptions.

which suitable hardware equipped with this bar code reader 10 is available in a commercial scene as a model ST 3000-22 from Welch Alin, SUKANITERUZU Falls, and New York (Welch Allyn, Skaneateles Falls, New York), and this invention was indicated by this equipment by this application. A bar code reader 10 is the hand-held independence-type unit which can scan and decode a bar code symbol. This unit is the magnitude of 3 (10x4x3 legislation inch) 25.4x10.16x7.62cm, and its weight is good at 282.5g (10 unciae). However, preferably, it is 3 19.05x8.82x5.08cm (71/2 x31 / 2 x2 legislation inch), and during a scan, an average of 1.4W or less than [it], and luminescence are turned OFF, and it is 0.83W during decoding. Preferably, weight is 212.625g (7.5 unciae). As for this unit, width of face can resolve a 0.127mm (5 mils) bar code element.

[0015] The bar code reader 10 has two or more 660nm light emitting diode 8 (light source) 16 which irradiate the narrow strip of a bar code symbol 18 corresponding to the sensitization field of the usual optical system 15 and the photodetector of a unit. The lens system of optical system 15 is indicated by U.S. Pat. No. 5,291,008 by the applicant of this invention. The light which returned from the bar code symbol 18 through the suitable condenser lens 19 along with the light-receiving pass 14 collides with the photodetector realized as a charge coupling equipment (CCD) array 17. The CCD array 17 generates the analog signal showing the optical pattern of the perfect scanning line which crosses a bar code symbol. This analog signal passes accommodation and analog-to-digital conversion of a signal, and the signal processor 20 which digitizes. Digitization is indicated by these people's U.S. Pat. No. 5,294,783, and is realized using the analog reconstruction circuit quoted here for reference. The signal acquired as a result is the binary numeral of the bar code symbol by which reading appearance is carried out, and is supplied to a microcomputer 30.

[0016] A microcomputer 30 performs various tasks required for actuation of a system. A microcomputer 30 has 64 K bytes of address space including the microcontroller 40 realized as MC68HC11D0CFN3 made from Motorola. You may make it a microcomputer 30 have the address space which does not exceed 64 K bytes.

[0017] MC68HC11D0CFN3 has I/O of serial and parallel, an interruption logical circuit, an oscillator, and a clock logical circuit again. The microcontroller 40 adopted as the microcomputer 30 accesses the 8-K byte static RAM 42 and 32-K byte PEROM45. You may make it a static RAM 42 have the capacity which does not exceed 8 K bytes for data storage. Moreover, you may make it PEROM45 have the capacity which does not exceed 32 K bytes. The capacity of a microcontroller is reinforced by various functions ASIC 35.

[0018] As shown in drawing 2, ASIC35 has four basic function blocks. The CCD clock control section 43 makes it possible to switch the scan speed of the CCD array 17 between 50, 100, and 200 scans / second through a line 36, and controls a CCD array further to become desirable because of the optimal scan. A memory management unit 46 (MMU) gives the limited memory management capacity. It connects with the signal processor 20 by the line 38, and a timer / Direct-Memory-Access (DMA) channel 48 captures the input signal for continuing decoding automatically. Thereby, as for a microcontroller 40, the pattern analysis for decoding of a bar code symbol is attained. The common interface unit 44 performs the free communication link interface for a bar code reader 10 through a line 37 at the end. The ASIC35 whole is controlled by the microcontroller 40 through an internal bus 39.

[0019] The internal clock of a microcontroller 40 is controlled by the oscillator which has Xtal 49 through ASIC35. Since the engine performance of a system is increased, and in order to deal with the heavy load of the calculating machine imposed by decoding of PDF417 symbol, 7.3728MHz Xtal with which 3000 to ST22 model which does not deform is equipped was replaced with Xtal with a frequency of 14.7456MHz. Other deformation over 3000 to BASIC ST22 model is as follows.

[0020] A static RAM (SRAM) 42 is 8Kx8CMOS for 70ns. It is RAM (part number CXK5864BM-70L of Sony). A microcontroller (microprocessor) 40 is MC68HC11D0CFN3 of Motorola. PEROM45 is a model for 90ns (AT29C 256-9 of ATOMERU (ATMEL)).

[0021] In the permutation of the above-mentioned components, although SRAM, a microprocessor, and PEROM secure the dependability of a component by having increased the clock frequency, it becomes the most important contribution to the engine performance to double the frequency of Xtal. The firmware in PEROM45 includes the instruction in which the activation for a microcontroller 40 is possible. A part of program realized within PEROM45 is the conventional thing, and the bar code reader 10 is enabled to function as a conventional automatic distinction reader to a linear bar code.

[0022] Roughly, as shown in drawing 3, the firmware 60 consists of four Maine blocks. Various system monitoring functions shown with a reference number 62 include the monitor of I/O between control and sequencing of initialization of volatile hardware and a memory area, a scan, and actuation of decoding and a bar code reader and an operator, and an external device, and maintenance.

[0023] The decoding function shown with a reference number 64 is performed in some phases. If a bar code symbol is

related. A character string's decoded error checking is performed to a degree, and the alphabetic character decoded at the end determines the data message which is interpreted and corresponds. In the case of a linear symbol, the decoding result from one scan is a message for transmission. In a two-dimensional symbol like PDF417, a decoding result is partial information combined with the result of the decoding actuation which is stored in the static random-access-memory (SRAM) array 42 (drawing 1), and follows behind. The menu facility shown with a reference number 66 is a routine called according to decoding of a specific bar code symbol, and is the so-called bar code "a menu" which sets a non-volatilized bit or a value in the arrangement field where PEROM45 was specified, and manages the operating characteristic of a bar code reader 10 of enabling decoding of a scan speed, a bell volume, scan mode (a manual or automatic trigger), and a special bar code symbol, and others.

[0024] Communication facility 68 contains a protocol required to offer hardware and hand over the scanned data to mounting equipment. The bar code reader 10 is supporting much the communications protocols and interfaces containing the terminal and keyboard of a laser output, OCIA, OCR, RS-232, and various commercial scenes, and, as for current, only the RS-232 interface is programmed in it.

[0025] Equipment like a bar code reader 10 could decode PDF417 bar code symbol because the firmware 60 for decoding existed in PEROM45. The object code of a firmware is indicated from 1 of the following table 1 without the place left to list No.1 shown in 38 of a table 1.

[0026]

[A table 1]

5 :10FFB0008EED80400000000008000803F00000000C7
:10FFC0000000000000000000000000000000000031
:10FFD000000000000000000086AC807680768076807617
:10FFE00088A4889980768076851980768076807658
:10FFF000882580768076807680768076807680769A
:10800000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF80
:10801000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF70
10 :10802000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF60
:10803000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF50
:108040000D574133343231393031320D3131393419
:10805000CE24FFFFFFFFFFFFFFFFFOD0AFFFFFFFFF23
:10806000FFFFF8A8A97FEE0E32D0D000A0A10662FB3
15 :1080700000050D00CAFE8E01FFCC203B973DD7398D
:10808000CC01439726D724CC0000973F97F1DDEB36
:10809000B7020097F497ED97F097EE97F9CC034F5E
:1080A0009746D748CEB00018CE001BBD89B31AA3CF
:1080B000002709CE00000926FDBD8974BD8952CE76
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:1082B000B3020326BF8DE5B3020526B87A02002675
:1082C000D820058DD7FD020513D0042214ED20FC23
:1082D00002011AB30207261CFC02051AB302092682

[0027]
[A table 2]

```

:1082E0001313ED10B41223400B15ED1020ABBD900D
:1082F00026152280FC0205FD0209FC0201FD020791
:108300002A0D81822409BD88E515F9017E810B7D46
:1083100000F12705BD8952200713D04003BD841901
5 :10832000B6020181702606BDC9BBF70202CE01006C
:108330004FF60202205114F9807E818A15F980BD22
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[0028]
[A table 3]

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0029]
A table 4]

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030]

table 5]

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0031]
A table 6]

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0032]
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[0033]
A table 8]

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[0034]
A table 9]

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[A table 10]

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[0036]

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[A table 11]

[0037]

[A table 12]

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[0039]
[A table 14]

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A table 16]

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[A table 17]

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[0044]
[A table 19]

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0045]
A table 20]

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[0046]
A table 21]

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[0047]
[A table 22]

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[0048]

[A table 23]

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[0049]
[A table 24]

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[0050]
[A table 25]

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[0051]
[A table 26]

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[0052]
[A table 27]

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[0053]
[A table 28]

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[0054]
[A table 29]

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[0056]
 [A table 31]

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[0057]
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[0058]
[A table 33]


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:10EDEB0001BDEE9108088C1C1C25F439DDA4CE1C4A
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:10EE0B00A43CCE010002DFA438ED008C1C1022E1E3
:10EE1B0039FF0236CE1C10CC55AA973AD73ACC0004
50 :10EE2B0000ED0008088C1C2E25F7CE1BC0DFAAEC00
:10EE3B0000CE001E02DDA28F8D56DCA28D52DEAAQ3
:10EE4B000808BC023625E67F00ACCE1C10CC2F2F59
:10EE5B00DDA6EC007C00A683006424F8CB647C0068
:10EE6B00A7C00A24F9CB3A96A68D0F96A78D0B1740

```

[0059]
[A table 34]

5 :10EE7B008D0808088C1C2E25D43912AC80088131E2
:10EE8B00260314AC80393CDE90A70008DF9038399C
:10EE9B00DDA4CE1C2E0909EC0005E30005E30005FB
:10EEAB00E30005D3A43CCE03E802DFA438ED008CCD
:10EEBB001C1022E1394142434445464748494A4BDD
:10EECB004C4D4E4F505152535455565758595A203A
:10EEDB006162636465666768696A6B6C6D6E6F709F
:10EEEB007172737475767778797A20303132333466
:10EEFB003536373839260D092C3A232D2E242F2B56
10 :10EF0B00252A3D5E20203B3C3E405B5C5D5F607E86
:10EF1B00210D092C3A0A2D2E242F227C2A28293F39
:10EF2B007B7D2780008000000006540002056806E8
:10EF3B00D8065603F2047C000405EC011C056A0696
:10EF4B00B2030606DA039005A2065805B0050003C6
15 :10EF5B00F4003006D0047E067005C60006021A00C7
:10EF6B00FC05EE015202A4011E04B6038A056C02D5
:10EF7B009B04C406B40414037603080572068406C9
:10EF8B00DC05E4035C039200A4058405A404DA0009
:10EF9B0018065A00B4012E05B20010034A050207E9
20 :10EFAB000C006603F601B8064A0032043E03CA069B
:10EFBB00D2029E03440480058E01AC067203D80571
:10EFCB000E05C8004603280008028A0614021C0519
:10EFD003A048600FE0598046805F0036404F80102
:10EFE00540270054802A604CA06F80120049801D1
25 :10EFFB005C04B802B003EE038C066C04B2056E041D
:10FO0B00D60708029A0042059404C60668066406F1
:10FO1B00B6025E0254041602380620037806BA06BE
:10FO2B0008030A03C200CC0574055E0518068602A8
:10FO3B0062035206DE02DE01FC05E6029201B20318
30 :10FO4B005E0258008E0394009404A200A600C00038
:10FO5B00D40586041A02EC05A6042200EA04DC009F
:10FO6B005C069A001A023C0382065C018E019E002C
:10FO7B00B60528067801300624044E05B4039A051C
:10FO8B00C00012032204AC034C037C017E05040177
35 :10FO9B00460278070E040C0230006806BE0184039A
:10FOAB00F8045C062E01BA05D403DE064C060C01EF
:10F0BB00960034009A03AC0440007004EE03CC03BA
:10FOCB000E01C406D4030206CC02A0037205800312
:10F0DB004603C6050A0482054403EA0590061C058F
40 :10F0EB001401AE00D006960674C4A8022C03DA04B1
:10F0FB00EA057C0510057801DA05CA02F4017200F5
:10F10B0048016801DE032A0562014C000A05340040
:10F11B003C028C052205CE0616051C010A021E00B8
:10F12B00AC02D6053C072002F80488068A0472015B
45 :10F13B0000042C0550059A06F00176046A0266025B
:10F14B007E05F202C201F203660110004C04FA03C1
:10F15B005601A6015600C600E4027206C6016C05F4
:10F16B004A06E2002802A8040406E804CC03B60110
:10F17B00E206FA02E20714012207280642049A0269
50 :10F18B0024032E015E020006A404BA00DA03360241
:10F19B00B2073E056603F005EA06B0038E05AE0026
:10F1AB002E066E0218015004B40296041205700567
:10F1BB00E200A204D800B2000E070A01B6043C021A
:10F1CB009C058C03D6004402880538059603620221

[0060]
[A table 35]

```

:10F1DB006E04C8049602AE066A04D40040066602AA
:10F1EB005C021606B803C0055C026002DC029002CA
:10F1FB0056009200BE04180420005A023A018C05F6
:10F20B0026062203980320037A0144040A06BC0451
5 :10F21B005A05D2060A0098006E030C030003700314
:10F22B00C40542061A00CE04A604E8057602F201D4
:10F23B0066056005320520051A00AA071E0688041C
:10F24B002A06EE026402C0010E035400C406C4067J
:10F25B00E0040203B402E00726022201FE00D807F5
10 :10F26B003C05E805AC0216029405E000B001B405BC
:10F27B008A02860360049404D2025A03BE02DA00A7
:10F28B0090041E018A039601420458009602FE056J
:10F29B004004A402F0053000A8042802BE00C204FA
:10F2AB0000072400D605AA05DE0588049203BC04DA
15 :10F2BB001C014002FC02EE042603FE05A80490018B
:10F2CB003E0424048E048C00EC00EE008404DE006B
:10F2DB00F00208005E0086068E069C04E0007C00AF
:10F2EB001C00F201E8023E020A047603840060046B
:10F2FB0062065E0088044801900690010401A00696
20 :10F30B009E043600B804E20736052A007E04300658
:10F31B007A001E05FA013200F40700062601EA0501
:10F32B005404500240063405B6020C0248039C04F8
:10F33B0078059E05C2038606800014006203400315
:10F34B0024046406F404AE06600604034E008A022D
25 :10F35B00E8037E044A017A0180019201C00506068A
:10F36B009201D601480106046E027A01A20024071D
:10F37B001006A006AC040E0438026A023200BA036F
:10F38B001C006A04E4071A06C007380282018605CE
:10F39B002C05DA03FA00800078045E043205F606C9
30 :10F3AB0030067C060001BC0020031805D605FC02C4
:10F3BB00C603E0013402CA064E00F60128060E070A
:10F3CB000201F60198062803E4003601EC063C0026
:10F3DB009C0556036A03AE045201380442024201F3
:10F3EB00D000720636011404F005B802CE03CE022B
45 :10F3FB000E072E0310024A005001C6039E0652064A
:10F40B00D6047A011A030405A004FE06CE05C40037
:10F41B00FA02A2038804C203740682035A0582000F
:10F42B0016012C03480064064803C8034201AA05D1
:10F43B000C032606120484046604F6054606F60140
50 :10F44B005A03EC04B00706059206620252061E062A
:10F45B000600CA0516035001FA01B0008C04A00087
:10F46B00D202EA00E806980380019C0676044C055C
:10F47B00BE04AA017C0276022E0182062C03DC015B
:10F48B009403AA04EC01C206CA057E050803E8052D
5 :10F49B00120694022A057A01D8017001DC014A0098
:10F4AB003A05CC010802D402F60470054E01740231
:10F4BB007C01F0004A01A400E2016A002606E60185
:10F4CB00E007120640032C06A20334056406AE00C7
:10F4DB002C014E041000A0000C043A03D405360294
0 :10F4EB006C02AC003E0234055A028E00BC0058057B
:10F4FB0024031E040805D0006C036E061804E601F5
:10F50B0064051E071C06EC010C06C203B2022007A1
:10F51B003A021400AE028404D002D80188045605C6
:10F52B003E052E02BC072205DC03BA02FA03FC01DE

```

0061]
A table 36]

```

:10F53B003C048A00820206068C007A01E6047404FD
:10F54B00600446010204340734042E05F806FE0558
:10F55B005206320246059C067E033E06F206020266
5 :10F56B00E6017801BE01D4046C002206AA026803EE
:10F57B001A0718028005D8007605F405FE0316025B
:10F58B00C402C8012601F403E2063A0368013601FE
:10F59B00CE011202CC072C004E0650011804FC00C1
:10F5AB00F804C00358012A064601A8061004F4010A
10 :10F5BB00580704025000C801F8049E00E6019A05A2
:10F5CB00BC0274062A03A806C803E60228016E00D3
:10F5DB003802D2054C01EE00E006E4063E03320091
:10F5EB002A009E03D202AA055800560406036C019A
:10F5FB006206EA03B0021204CE045402BA03B80145
:10F60B003A020401E40444073206FC0244033C02C0
15 :10F61B00E401D206A807160074031401240638016E
:10F62B00CC072A011604BE064404F2024E049C05C4
:10F63B00BA03A6022602D000DE033003D000540129
:10F64B0060021002B80202073003JA06A603120149
:10F65B00CA04BC024C03A400DC005202B6033801FE
20 :10F66B00C803A202B403A000020006001200360079
:10F67B00A201E605B202920074015C041404FA00C4
:10F68B006A013E03BA03EC04820644044805960261
:10F69B003E06BA05AA027A002C0084018C04A4064B
:10F6AB00AA057A01EA05BE02B600E002A0009E019F
25 :10F6BB00DA058E0226067204D20734071806C40533
:10F6CB00C802D4013A03AE03C804160500007C013E
:10F6DB0074045C05D202F2019404BC06F2065204D7
:10F6EB0072061403B803E60470060E03A603B003F8
:10F6FB00CE04280536011E035A02CC0122036602F2
30 :10F70B00F0018E04AA06BC05B0028C006201260330
:10F71B0072031401FA05EE03460290006E014A03D0
:10F72B00DE045805C602CE012803780326023006F4
:10F73B0090052C0100030001BE053A012A037E034C
:10F74B003802660732071206B20592023206960598
15 :10F75B003E013603A203A403AA03BC03F2049406DE
:10F76B007A04EA003A00AE020A061E03D6044005EC
:10F77B007E01F605E203220224066C04C006FE0697
:10F78B007604DE0016004200C6025206F6065E0440
:10F79B0096068004FC0070015003F0048E0668048A
30 :10F7AB00B406DA060A039A038C036202E4016A04C4
:10F7BB003E057801E405AC0280003E00BA022E063D
:10F7CB008A051A00CA025E071A06CA05DA030A017D
:10F7DB00DC0594023806A8057401D80588021406C6
:10F7EB003C0430054E01660432055401780468056B
5 :10F7FB00F6035E02D8014603D20434055A018A048B
:10F80B009E06980544014803D804460590022C0631
:10F81B00840508009401BC053401180348029600C6
:10F82B008001800480063E04360560019C04D407E9
:10F83B003A072A06FA066A04BA06EC0640043C05A7
0 :10F84B007201D2057601DE059A024A06DE06160320
:10F85B00BE03F804A606B0058C02200660049C06C5
:10F86B00920532011203360260072006DC061003F4
:10F87B00AC03C2040404CA071C06D005EC03400207
:10F88B007E003800A801F805E80334025A070E067B

```

0062]
A table 37]

```

:10F89B00A6056E01C605520172045605C002BC00D6
:10F8AB00F202D6014003C003FE04B806E6062E049E
:10F8BB000604D0072E0706068E052600EE02CA01A7
:10F8CB001C035402BA00EC02C4010A031E02180600
5 :10F8DB0048045405BA02AA00BC0234069C05500128
:10F8EB006C0444058A021A064E046605F0034C02AA
:10F8FB00A200A401EC05C402C80116034202840055
:10F90B004AC0DE029A008C01A404EC004000C00205
:10F91B004006C005BC02B000CE026A073E073607A0
10 :10F92B001E06D605FE03760320021E065A048A061F
:10F93B005C0490066E04C6071006AC058001FC053E
:10F94B00F4035802C601100330024E06EA063A04CD
:10F95B002A053C01300390036E030801D605820291
:10F96B00020606038E036802F601A004E0001C00E9
15 :10F97B005400FC02F4019A04CE072806F40658043E
:10F98B0084064A045A05CC02E0015E041A050C00F9
:10F99B00A001E005A0025C071406B805A4026807E5
:10F9AB0038072406E8063404180506008E01AA045D
:10F9BB00FE0076016204260530010C0324022A06A0
20 :10F9CB007E04F6005E011A034E02A800B602220660
:10F9DB006604AE06C805D402F801A604F200520074
:10F9EB00F602E20164042C0542014203C604100432
:10F9FB00EE004600D2027600200060012003600278
:10FA0B00DE0158040804D60740073C0730070C06F4
25 :10FA1B00A0055C019004B006CE05E6032E02480655
:10FA2B00D806040388035602C000FE02FA01AC0597
:10FA3B00040088019804C8071606BE05B6029E008E
:10FA4B009801C805580184048C066204A206A4051B
:10FA5B006801B4051C00D00270000E002A007E0164
30 :10FA6B007A046E06080394037A032C024206C60539
:10FA7B00CE02E60170045005AE0286005000F00283
:10FA8B00D0012E038A035C02D20134039C03920340
:10FA9B0074031A020C062403E80476062003DC0424
:10FAAB005205B402980086019204B606E0061C03C8
35 :10FABB00D0042E0548015403FC04B206D405F80308
:10FACB006402EA017C0474061A03CA041C051200C2
:10FADB00B202160642044205840208061803C40447
:10FAEB000A04DC00100030009001B0051000AC02DD
:10FAFB0004060C03A0039E03980386035002AE007A
40 :10FB0B00C802580708069405380124036C03020148
:10FB1B00C4054C01600420051E00D602820044007F
:10FB2B00CC0264072C0700067C04F0004C00E402B6
:10FB3B00AC00C2024606D205F2035202B400DA024E
:10FB4B008E0068013803A803B603E0045E05D803F2
5 :10FB5B000401CA055E019604C20704068805140059
:10FB6B00B80228067804E4002800780168043805F8
:10FB7B006601AE050A009A01CE056A01BA052E018F
:10FB8B0006031201F405DC031001EE05CA02DA01CB
:10FB9B004C03E4046A05FC0370030E01E805B8028C
0 :10FBAB00A400AA01FE05FA036A02FC01B2051600C5
:10FBBB00BE023A06AE0586020E062A03FA04AC060E
:10FBBC00C205C202C20104030C01E205A6026E00CB
:10FBDB00080018004800D8028800560102030601ED
:10FBEB00D0057001CC056401A804F80064012C0356

```

0063]
A table 38]

```

5 :10FBFB0084034A029C009201B6052200E202A60091
:10FC0B00B002100630040C04E2002200660132033D
:10FC1B00960380033E02780026007201560402040C
:10FC2B00C4070A069A054A015A040E04E800340078
:10FC3B009C01D4057C01F005D002EC018204860600
:10FC4B0050046C060203820344028A005C01140315
:10FC5B003C02720014003C00B4021C0654047806EB
:10FC6B002603EE048B0656047E06380424052A0073
:10FC7B00FA02EE018B04980686050E00A601F2052D
10 :10FC8B00D602FE01B8052800F402DC015203F6048B
:10FC9B00A0069E0556017E047A062C040004BE06BF
:10FCAB00FB066404AB06B6059E02560702068205EE
:10FCBB0002008201860492067404D80004000C0032
:10FCCB0024006C014403CC0422052400E802B80094
15 :10FCDB00E602B200D4027C0032009601C205460156
:10FCEB004E03EA047C0632041204F40058010803A4
:10FCFB00180206061203B203D4043A056C01C005C0
:10FDOB0040013C03B403DA044C05A2026207260649
:10FD1B00EE0646044E05A80274001A004E00EA02D5
20 :10FD2B00BE00FB02EB0176046205E40328023606F9
:10FD3B00A2056201A204E6002E008A019E04DA00ED
:10FD4B000A001E005A010E032A023C06B405980253
:10FD5B004406CC05E0031C02120636041E051800EF
:10FD6B00C4024C06E4062803F4049A068C05200012
25 :10FD7B00DC0294007A016E044A059C025006F006E0
:10FD8B004C046005DE031602000600037C033202FE
:10FD9B005406FC067004CC072206E2062203E2049A
:09FDAB006405EA033A026C00024F
:00000001FF

```

0064] List No.1 is the well-known Intel hex format (Intel Hex format).

It is given by NNAAAATTPPPPPPPPPPPPPPPPPPPCC. However, for program byte-count;AAAA of the line, the st program cutting tool's address;TT is [NN] the type of data ;P P is a checksum [as opposed to the whole line in program cutting tool; and CC].

0065] Install to PEROM45 of list No.1 is performed using the loading program shown from 1 of a table 2 by list No.2 shown in 3 of a table 2.

0066]
 [a table 39]

```

      "DBOOT14.BAS" (9-29-93) -- BOOTSTRAPS A 14.7
MHz(!)
DECODED-OUT ST3000
5      FOR PROGRAMMING THE FLASH EEPROM!

      DEFINT I-N: DIM N(255)
      FOR I = 0 TO 255: N(I) = 0: NEXT I
      CLS : BEEP

10      ' THE FOLLOWING DATA LINES ARE DERIVED DIRECTLY FROM
      "DBOOT14.HEX"
      DATA
      ":100040008E0048CC6511973CD72B974A973F8D7B04
      DATA
15      ":10005000883A26FA9749CE01408D7716CB048D72E7
      DATA
      ":100060005A26FB4D26E818CE0144FC0141C4C0933A
      DATA
20      ":100070004A2737183CCE010018DE4A2A1BCCAA5565
      DATA
      ":10008000B7D555F7AAAACCA0FFB7D555F7D55578D48
      DATA
      ":1000900060180918E10026FBFC0141C4C0DD4A2AB2
      DATA
25      ":1000A000078F18CE01008D4918388601F60142C429
      DATA
      ":1000B0003F8F18A600A700FE014108FF0141180864
      DATA
      ":1000C0007A01402EA58606972F2083132E20FC96BA
      DATA
30      ":1000D0002F398D1248484848A7008D0AAB00A70069
      DATA
      ":1000E000089B499749398DE38030810A25028007B2
      DATA      ":0F00F000398640E60018E7000818084A26F53957
35      DATA      ":00000001FF

      LINELP: READ Z$
      K = VAL("&H" + MID$(Z$, 2, 2)): IF K = 0 GOTO
      DATADN
      L = VAL("&H" + MID$(Z$, 4, 4))
10      FOR I = 1 TO K: N(L + I - 1) = VAL("&H" +
      MID$(Z$, 8 + 2
      * I, 2))
      NEXT I: GOTO LINELP
      DATADN:

5      PRINT "Power Unit in Bootstrap Mode, then Press any
      Key"
      PRINT
      STALL: IF INKEY$ = "" GOTO STALL

0      ' *** NOW WE ISSUE <BRK> AND 256 CHARACTERS ***

```

0067]
A table 40]

```

"      OPEN "COM1:9600,N,8,1,CS0,DS0,CD0" FOR RANDOM AS #1
DUMP:  IF NOT EOF(1) THEN Z$ = INPUT$(1, 1): GOTO DUMP
' *** NOW MAGICALLY CHANGE TO 14400 BAUD ***
      OUT &H3FB, (&H80 OR INP(&H3FB))
5      OUT &H3FB, 8
      OUT &H3FB, (&H7F AND INP(&H3FB))

      PRINT #1, CHR$(255);
      FOR I = 64 TO 255: PRINT #1, CHR$(N(I));
      PRINT USING "\ \"; RIGHT$(HEX$(1024 + N(I)), 2);
10      IF I MOD 16 = 15 THEN PRINT
      NEXT I: PRINT
      J = 30000
      FOR I = 1 TO 190
TEST:  IF J <= 0 GOTO NOUNIT
15      IF EOF(1) THEN J = J - 1: GOTO TEST
      Z$ = INPUT$(1, 1): PRINT "*"; : NEXT I
      CLOSE #1: PRINT

      OPEN "COM1:19200,N,8,1,CS0,DS0,CD0" FOR RANDOM AS
#1
20      ' *** NOW MAGICALLY CHANGE TO 38.4 BAUD ***
      OUT &H3FB, (&H80 OR INP(&H3FB))
      OUT &H3FB, 3
      OUT &H3FB, (&H7F AND INP(&H3FB))

      ' *** NOW WE MUST FIND THE APPROPRIATE "????????.HEX"
25      BOOTSTRAP
      FILE ***
      F$ = COMMAND$: IF F$ <> "" GOTO GOTFIL
      NUTHER: FILES "*.HEX": INPUT "BOOTSTRAP '.HEX' FILE --
      ", F$
30      IF F$ = "" GOTO NOFILE
      GOTFIL: OPEN "I", 2, F$ + ".HEX"
      FILOOP: IF EOF(2) GOTO FILEDN ELSE LINE INPUT #2, A$
      PRINT #1, A$;
      PRINT A$;
35      GOSUB GETCHR: GOTO FILOOP
      FILEDN: CLOSE #2
      IF COMMAND$ = "" GOTO NUTHER
      GOTO NOFILE

      ' *** & NOW WE RECEIVE DATA WHILE WAITING FOR A KEYPRESS
40      -OR-
      <ACK> ***
      GETCHR:
      RECEIV: IF NOT EOF(1) THEN Z$ = INPUT$(1, 1): IF Z$ <>
      CHR$(6)
45      THEN PRINT Z$; ELSE PRINT " <ACK>": RETURN
      IF INKEY$ = "" AND Z$ <> CHR$(3) GOTO RECEIV ELSE
      PRINT :
      RETURN

```

0068]

A table 41]

表 2 の 3

```

NOUNIT: PRINT "  -- Bootstrapping Failed -- Start Over!
--":
BEEP

NOFILE: CLOSE #1
BYEBYE: SYSTEM

```

0069] List No.2 are performed according to the technique of the common knowledge specified by Motorola. ST 3000-2 is connected to the compatible personal computer employed by COM1 (trademark) or DOS of IBMPC which has list No.1 which has first list No.2 carried in BASIC INTAPURITA, and can be used by the file. ST 3000-22 is upgraded in bootstrap mode. Subsequently, if the depression of the trigger of ST 3000-22 is carried out, list No.2 will be performed

within a personal computer. At the depression of key of the operation of a personal computer is carried out, instant of the download program inside [RAM] a microcontroller 40 (MC68HC11D0CFN3) (not shown) will begin. A user answers the prompt of the input of the identifier of the file which subsequently contains list No.1. Subsequently to in PEROM45, list No.1 is downloaded directly.

[0070] The firmware 60 by this invention operates on PDF417 using 2 step process. The 1st step performed with a microcomputer 30 according to the instruction in list No.1 is decoding of a train. This step resembles linear bar code read-out, and includes arrangement of a series of PDF417 symbol alphabetic characters which adjoin a start or a STOP statement character. It is because "scan SUTITCHINGU" which comes to be just able to perform decoding after the scan which moves different space became possible that PDF417 became powerful in nearby calculating machine from the scan of a code 39 or a linear bar code like UPC. Furthermore, since the dimension of PEROM45 is limited, 17 large nodule alphabetic characters in large PDF417 character set make the usual lookup processing impossible. One or more nvalid character patterns will be seen [hear / I / *****], and there is difficulty produced in scan SUTITCHINGU always, when scan pass slides to the following line from one line. Such a pattern may not have even a proper number of elements. Nevertheless, once shift of space is performed, it is still required to take up the decoding process in the continuing effective alphabetic character. Since the data that all alphabetic characters start a line with the shift to Bar from the tooth space crossed and arranged are used for this decoding process, even when a scan shifts by space, it can recognize a start about each character position.

[0071] It is arranged in the suitable location of the matrix of the train as which decoding of a message or an array is performed and decoded PDF of 417 characters expresses a symbol in the 2nd step, and a line. Subsequently, error checking of the multi-line considered as a single string chain string is carried out, the error correction of it is carried out and it is decoded by the message encoded at the end. These all are performed within the limits of SRAM42 of 8K. The decoded information is outputted through the conventional communication link interface 55. A user interface 50 provides an operator with progress of a scan, and the display with the audio-visual result. Such an interface is indicated by the J.S. application serial number 08th under continuation by the same applicant as this application / No. 137,640.

[0072] Reading of the bar code symbol of some common knowledge which carries out automatic distinction and contains JPC is possible for a bar code reader 10. This equipment is used whether the bar code symbol 18 which is PDF417 symbol and obtains a bar code reader 10 is touched, and by making it approach and arranging. As for a bar code reader 10, aligning mostly in the line of a symbol is desirable. Subsequently, it can be started by carrying out the depression of the manual trigger, or read-out can be changed to this, and a bar code reader 10 can detect existence of a bar code symbol 18 and self-actuation. An operator is informed of read-out being effective by the advance notice machine which a lug hears.

[0073] Example 1: reading appearance of the standard PDF symbol (shown to drawing 6 by the reference number 00,500,600 from drawing 4) was repeatedly carried out using the above-mentioned example in 30 seconds. it explained above -- as -- "-- reading appearance -- carrying out -- " -- all actuation including the output of the information by which bar code information was scanned, decoded and decoded is said. In this example, the read-out head of a hand-held bar code reader contacted the data carrier, was maintained, and had aligned on the shaft of the train of a bar code symbol. There was no inclination to the flat surface of a data carrier. The lighting conditions of a surrounding chamber existed. The decoded information is shown as alphabetic character sequences 410, 510, and 610. This result is shown in a table 3.

[0074]

A table 42]

テキスト スト 文字	エラー訂正レベル								
	0	1	2	3	4	5	6	7	8
100	54	61	69	75	76	75	50	27	15
200	31	43	48	59	57	53	39	24	14
400	22	28	24	25	28	25	23	18	13
800	11	14	13	16	15	16	13	12	8
1200	8	9	9	10	10	9	7	--	--
1600	5	6	6	7	7	7	--	--	--

[0075] For the comparison, this experiment was repeated using the two-dimensional hand carry type bar code reader of the conventional technique available now connected to the remote decoder. The system of this conventional technique used the microprocessor more powerful than 68HC11. This result is shown in a table 4.

[0076]

A table 43]

表 4

従来のバーコードリーダーでの30秒内での読み出し数

テキスト スト 文字	エラー訂正レベル								
	0	1	2	3	4	5	6	7	8
100	58	65	73	77	80	77	71	41	15
200	45	50	58	58	60	60	59	35	12
400	32	35	37	39	47	45	43	29	13
800	16	22	24	26	26	26	24	18	10
1200	12	13	15	16	17	17	17	13	--
1600	9	0	11	12	13	13	--	--	--

[0077] Although there are only few impressions slightly in the engine performance than the conventional bar code reader, the result depended on this invention is clearly simpler than conventional equipment, and is performed by cheap equipment small.

In example 2 drawing 7, some outlines of the 2nd example of this invention are shown, and the same reference number is given to the parts of drawing 1 and drawing 2, and resemblance. In this example, the photodetector has the same outline configuration as the 1st example except for realizing by the two-dimensional CCD matrix 117 equipped with not linear CCD array but an element called 120-120. A CCD array acquires simultaneously the image of the whole two-dimensional bar code symbol 18 during a scan. The signal generated by the two-dimensional CCD matrix 117 is multiplexed by the multiplexer (MUX) 125 in the form of a line writing direction, and, subsequently to a signal processor 20, is connected. In this way, a multiplexer is used, the two-dimensional CCD matrix 117 in a single scan can emulate two or more scans performed by the linear CCD array 17 of the 1st example, the signal format can be thoroughly accepted in a signal processor 20 and a microcomputer 30, and both detect the same signal as the signal generated by the linear CCD array.

[0078] Drawing 8 explains the 3rd example of the 3rd example this invention. In this example, the light source 116 has the same outline configuration as the 1st example except for the point which is the beam deflection machine 140 which is the raster ring laser realized as a laser light source 116, a revolution or an oscillating mirror, or bimorph. Raster ring laser is common knowledge in this technical field. Laser beam deflection equipment is indicated by U.S. Pat. No. 4,251,798 of for example, SUWARUTO and others (Swart et al.). Raster ring laser operates with one or more photodetectors 17, and is shown by the arrow head in a box 115, when the beam deflection machine 140 vibrates a laser beam 122 to horizontal

and a perpendicular direction, a bar code symbol is irradiated in the form of a line writing direction, and is scanned. According to above-mentioned U.S. Pat. No. 5,241,164, if scan SUTITCHINGU is adopted, the misalignment of the scanning line will be allowed.

[0079] Although this invention has been explained with reference to the structure indicated here, it is not limited to the indicated detail structure and means that the application covers the correction and deformation of arbitration which are produced within a patent claim.

[Translation done.]

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TECHNICAL FIELD

[Field of the Invention] This invention relates to a two-dimensional bar code reader. Furthermore, this invention relates to the bar code reader of an independence type like PDF417 which can read thoroughly both a 1-dimensional bar code symbol and a two-dimensional bar code symbol, and can be decoded at a detail.

[Translation done.]

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PRIOR ART

[Description of the Prior Art] The bar code reader of an independence type is well known for this field. The newest example is the model of ST3000 proposed by these people. This kind of bar code reader has the microcomputer [reading / a linear bar code symbol like the UPC code currently used widely at the supermarket or the similar retail store or a code 39 / microcomputer / a scan or reading]. Below, these codes are called a "linear bar code." Moreover, below, "a scan" means detecting existence of a bar code symbol and obtaining the electric display of the optical pattern of the symbol. "Reading" means scanning a symbol, decoding the electric display and generating the information in the standardized format. ASCII is an example of the standardized format in which an output by the decoder is possible. The "independence type" used below does not eliminate the case where it connects with the communication wire to the case where a bar code reader is connected to an external power, or an external host.

[0003] Recently, increasing the content of information of the graphical image like a bar code symbol which a machine can read is proposed very much by encoding data to the two-dimensional bar code symbol by which data are arranged by the train and the line. These codes are often arranged by the matrix-like fixed width-of-face pattern. code one (Code One) -- four command characters and the pad character -- adding -- ASCII -- all -- it is the two-dimensional matrix symbol which can encode 256 characters. This symbol has ten different versions defined with 27-50% of the symbol alphabetic character assigned to error detection and correction. Some versions use the Lead Solomon (Reed-Solomon) error control.

[0004] Other two-dimensional bar code symbols are PDs417. PD417 is explained by Wong's (Wang) U.S. Pat. No. 5,243,655. When it summarizes simply, PD417 is the special two-dimensional (17 4) symbol of the family (n, k) of a bar code. At PD417, a codeword is formed by 17 bits which consists of combination from which Bar of four trains which form many legal patterns, and the tooth space between four trains differ. Each tooth space and the width of face of each bar can change in the unit of the arbitration of 1-6, as long as the total number of unit in a codeword is 17. In PDF417, an exclusive subset or an exclusive cluster is used for three each other of a set of a legal pattern, and each cluster contains 929 codewords. Each of a codeword can be arranged by t sequence (t-sequence), and the map of the pattern within t sequence is carried out to the desired alphabet with a suitable translation table.

[0005] Each line of a PDF symbol is equipped with the codeword chosen from one of the three clusters, and three subsets are periodically used by the line writing direction. The specific cluster to which a codeword belongs can be identified by calculating the discriminator ability shown below.

$f(X) = (X_1 - X_3 + X_5 - X_7) \bmod 9$, however X are the mark patterns of a codeword, X_1 , X_3 , X_5 , and X_7 express the width of face of Bar in the pattern, and it is X_2 , X_6 , and X_8 . The width of face of a tooth space is expressed. Although nine clusters are possible, in PDF417, three [0, 3, and 6], i.e., clusters, are used actually.

[0006] There are a start pattern, a left row indicator codeword, data-code WORD, a right row indicator codeword, and a stop codeword in each line of a PDF symbol. Error correction information can be included in data-code WORD. The line indicator codeword contains the number of the lines in the information about the configuration of a symbol especially a line number, and a symbol, the number of data lines, and the level of security. All these information is included in not all line indicator codewords, and that information is distributed in the shape of a pattern every three lines.

[0007] During a scan, a scanner can identify the cluster of a specific codeword and, as a result, can identify the line identification modulo 3. This local line identification is convenient especially when the shift between two lines occurs during a scan in the time of the scan shaft having not aligned thoroughly in the line of a symbol. Mapping [in a matrix or memory]-by detection of crossover of line-"SUTITCHINGU of scan (stitching)", i.e., partial row scanning, ** becomes possible. Since data are expressed to redundancy within the symbol, or since an error correction algorithm like the Lead Solomon (Reed-Solomon) code is used, the part which is missing in the matrix completed selectively can be filled by other scan data of a line which is probably completely different. The typical scan SUTITCHINGU method is indicated

by U.S. Pat. No. 5,241,164 of pub RIDISU and others (Pavlidiset al.).

[0008] In some conventional techniques, in order to collect data and for this to read from most of all fields, the relative movement between a scanner and a two-dimensional symbol is required. Read-out of PDF417 code may be performed by the learned approach of a single-character single character according to 2 step process. At the first step, the discriminator ability is calculated by a codeword being scanned. The first step is completed by identifying the cluster of a codeword and determining the value of t sequence for the identified cluster. In decoding of the 2nd step or higher level, error detection and correction are performed and the member of the alphabet subsequently encoded within the symbol is obtained from t sequence using a look-up table etc.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] The current problem in this technical field is that the computer resource which takes the bar code symbol of PDF417 to read within [acceptable] time amount is comparatively large, and needs a bulk memory and a large processing power. generally because of [for work of the calculating machine contained in the error detection and correction of many alphabetic characters (up to 928 characters per one symbol)] the data that the set of an alphabetic character is larger than the usual 8-bit symbol, it is used to decoding of PDF417 -- it is comparatively alike and the complicated computer has the at least 16-bit processor highly. The 16-bit processor is farther [than the 8 bit microprocessor looked at by the portable bar code reader of a commercial scene like above-mentioned ST3000 now] expensive. Furthermore, a 16-bit processor needs mass memory for decoding the symbol of PDF417, and its consumption power is too larger than the practical power in a cheap portable bar code reader. Consequently, in order to complete decoding, the unload of the data which are not decoded needed to be carried out to a remote decoder like a desktop computer, a risk (RISK), or a digital signal processor from the bar code scanner. This needs a communication link further between a decoder and a bar code scanner, in order to perform error detection and correction. Consequently, it is complicated to equip with a portable two-dimensional bar code reader with a cash register or a POS (point of sale) terminal, and it is attached at an expensive price. A facility of many retail stores cannot bear the cost by the hardware of an addition to the tooth space of the addition for a remote decoder, either.

[0010] Therefore, the main object of this invention is offering the bar code reader of the independence type which can read promptly a two-dimensional bar code symbol like PDF417. Other objects of this invention are things which were suited so that a two-dimensional bar code symbol might be scanned and decoded and which offer electronic and the portable hand carry type bar code reader including the description of calculating-machine-structure of a full independence type.

[0011] The object of further others of this invention is to perform efficiently a scan and decoding of a two-dimensional bar code reader symbol using a cheap microcomputer by the minimum memory and small [of power consumption].

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MEANS

[Means for Solving the Problem] The above-mentioned object and other objects of this invention suit PDF417 symbol containing the light source, a photodetector, and a decoder and are portable, are hand carry types, and are attained by the two-dimensional bar code reader of an independence type. This decoder had 64 K bytes of address space, and is equipped with the 8-bit microcomputer which uses 8 K bytes of SRAM for data storage, and 32 K bytes of programmable erasable read-only memory (PEROM) for program instruction actually. The engine performance is strengthened by the new program made resident at the PEROM. Housing of this unit is 3 about 19.05x8.82x5.08cm (71/2x31 / 2 x2 legislation inch). It is 212.625g (7.5 unciae), and the weight turns OFF an average of 1.4W and luminescence during a scan during read-out actuation, and is 0.83W during decoding.

[0013] In one mode of this invention, the light source irradiates the narrow strip on a bar code symbol, and the visual field of a photodetector supports the strip. In other modes of this invention, a photodetector is a CCD matrix which acquires the image of the whole bar code symbol. In the mode of further others of this invention, a photodetector is a photodiode and the light source is raster rye gin grazer which scans a symbol in the form of a line writing direction.

[0014]

[Embodiment of the Invention] The example of this invention is explained below at a detail, referring to an attached drawing for a better understanding of the above-mentioned object of this invention, other objects, and many descriptions.

The bar code reader 10 is shown in example 1 drawing 1 . It can carry out by adding modification of a certain kind by which suitable hardware equipped with this bar code reader 10 is available in a commercial scene as a model ST 3000-22 from Welch Alin, SUKANITERUZU Falls, and New York (Welch Allyn, Skaneateles Falls, New York), and this invention was indicated by this equipment by this application. A bar code reader 10 is the hand-held independence-type unit which can scan and decode a bar code symbol. This unit is the magnitude of 3 (10x4x3 legislation inch) 25.4x10.16x7.62cm, and its weight is good at 282.5g (10 unciae). However, preferably, it is 3 19.05x8.82x5.08cm (71/2 x31 / 2 x2 legislation inch), and during a scan, an average of 1.4W or less than [it], and luminescence are turned OFF, and it is 0.83W during decoding. Preferably, weight is 212.625g (7.5 unciae). As for this unit, width of face can resolve a 0.127mm (5 mils) bar code element.

[0015] The bar code reader 10 has two or more 660nm light emitting diode 8 (light source) 16 which irradiate the narrow strip of a bar code symbol 18 corresponding to the sensitization field of the usual optical system 15 and the photodetector of a unit. The lens system of optical system 15 is indicated by U.S. Pat. No. 5,291,008 by the applicant of this invention. The light which returned from the bar code symbol 18 through the suitable condenser lens 19 along with the light-receiving pass 14 collides with the photodetector realized as a charge coupling equipment (CCD) array 17. The CCD array 17 generates the analog signal showing the optical pattern of the perfect scanning line which crosses a bar code symbol. This analog signal passes accommodation and analog-to-digital conversion of a signal, and the signal processor 20 which digitizes. Digitization is indicated by these people's U.S. Pat. No. 5,294,783, and is realized using the analog reconstruction circuit quoted here for reference. The signal acquired as a result is the binary numeral of the bar code symbol by which reading appearance is carried out, and is supplied to a microcomputer 30.

[0016] A microcomputer 30 performs various tasks required for actuation of a system. A microcomputer 30 has 64 K bytes of address space including the microcontroller 40 realized as MC68HC11D0CFN3 made from Motorola. You may make it a microcomputer 30 have the address space which does not exceed 64 K bytes.

[0017] MC68HC11D0CFN3 has I/O of serial and parallel, an interruption logical circuit, an oscillator, and a clock logical circuit again. The microcontroller 40 adopted as the microcomputer 30 accesses the 8-K byte static RAM 42 and 32-K byte PEROM45. You may make it a static RAM 42 have the capacity which does not exceed 8 K bytes for data storage. Moreover, you may make it PEROM45 have the capacity which does not exceed 32 K bytes. The capacity of a

microcontroller is reinforced by various functions ASIC 35.

[0018] As shown in drawing 2, ASIC35 has four basic function blocks. The CCD clock control section 43 makes it possible to switch the scan speed of the CCD array 17 between 50, 100, and 200 scans / second through a line 36, and controls a CCD array further to become desirable because of the optimal scan. A memory management unit 46 (MMU) gives the limited memory management capacity. It connects with the signal processor 20 by the line 38, and a timer / Direct-Memory-Access (DMA) channel 48 captures the input signal for continuing decoding automatically. Thereby, as for a microcontroller 40, the pattern analysis for decoding of a bar code symbol is attained. The common interface unit 44 performs the free communication link interface for a bar code reader 10 through a line 37 at the end. The ASIC35 whole is controlled by the microcontroller 40 through an internal bus 39.

[0019] The internal clock of a microcontroller 40 is controlled by the oscillator which has Xtal 49 through ASIC35. Since the engine performance of a system is increased, and in order to deal with the heavy load of the calculating machine imposed by decoding of PDF417 symbol, 7.3728MHz Xtal with which 3000 to ST22 model which does not deform is equipped was replaced with Xtal with a frequency of 14.7456MHz. Other deformation over 3000 to BASIC ST22 model is as follows.

[0020] A static RAM (SRAM) 42 is 8Kx8CMOS for 70ns. It is RAM (part number CXK5864BM-70L of Sony). A microcontroller (microprocessor) 40 is MC68HC11D0CFN3 of Motorola. PEROM45 is a model for 90ns (AT29C 256-9 of ATOMERU (ATMEL)).

[0021] In the permutation of the above-mentioned components, although SRAM, a microprocessor, and PEROM secure the dependability of a component by having increased the clock frequency, it becomes the most important contribution to the engine performance to double the frequency of Xtal. The firmware in PEROM45 includes the instruction in which the activation for a microcontroller 40 is possible. A part of program realized within PEROM45 is the conventional thing, and the bar code reader 10 is enabled to function as a conventional automatic distinction reader to a linear bar code.

[0022] Roughly, as shown in drawing 3, the firmware 60 consists of four Main blocks. Various system monitoring functions shown with a reference number 62 include the monitor of I/O between control and sequencing of initialization of volatile hardware and a memory area, a scan, and actuation of decoding and a bar code reader and an operator, and an external device, and maintenance.

[0023] The decoding function shown with a reference number 64 is performed in some phases. If a bar code symbol is detected, it will be carried out in the field in which the decoding actuation for every detailed alphabetic character is related. A character string's decoded error checking is performed to a degree, and the alphabetic character decoded at the end determines the data message which is interpreted and corresponds. In the case of a linear symbol, the decoding result from one scan is a message for transmission. In a two-dimensional symbol like PDF417, a decoding result is partial information combined with the result of the decoding actuation which is stored in the static random-access-memory (SRAM) array 42 (drawing 1), and follows behind. The menu facility shown with a reference number 66 is a routine called according to decoding of a specific bar code symbol, and is the so-called bar code "a menu" which sets a non-volatilized bit or a value in the arrangement field where PEROM45 was specified, and manages the operating characteristic of a bar code reader 10 of enabling decoding of a scan speed, a bell volume, scan mode (a manual or automatic trigger), and a special bar code symbol, and others.

[0024] Communication facility 68 contains a protocol required to offer hardware and hand over the scanned data to mounting equipment. The bar code reader 10 is supporting much the communications protocols and interfaces containing the terminal and keyboard of a laser output, OCIA, OCR, RS-232, and various commercial scenes, and, as for current, only the RS-232 interface is programmed in it.

[0025] Equipment like a bar code reader 10 could decode PDF417 bar code symbol because the firmware 60 for decoding existed in PEROM45. The object code of a firmware is indicated from 1 of the following table 1 without the place left to list No.1 shown in 38 of a table 1.

[0026]

[A table 1]

表 1 の 1

5 : 10FFB0008EED8040000000008000803F00000000C7
: 10FFC00000000000000000000000000000000031
: 10FFD000000000000000000086AC807680768076807617
: 10FFE00088A4889980768076851980768076807658
: 10FFF000882580768076807680768076807680769A
: 10800000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF80
: 10801000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF70
10 : 10802000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF60
: 10803000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF50
: 108040000D574133343231393031320D3131393419
: 10805000CE24FFFFFFFFFFFFFFFFF0D0AFFFFFFFFF23
: 10806000FFFF8A8A97FEE0E32D0D000A0A10662FB3
15 : 1080700000050D00CAFE8E01FFCC203B973DD7398D
: 10808000CC01439726D724CC0000973F97F1DDEB36
: 10809000B7020097F497ED97F097EE97F9CC034F5E
: 1080A0009746D748CE800018CE001BBD89B31AA3CF
: 1080B000002709CE00000926FDBD8974BD8952CE76
20 : 1080C0000FFF134302090926F914ED8014D004BDF3
: 1080D000846FDC0EC30064DD180E13D080181246C6
: 1080E000200E12D0040ACE00FF134302D90926F91C
: 1080F000BD8426BD8419201313F9800B13EA0804EC
: 1081000012D004037E833C13EA0103BDC9BCBD90B9
25 : 108110002615228013EA800B12D0040713F90103FD
: 10812000BD855EBD903013ED400315ED50CC55AAD2
: 10813000973AD73A12D0042D12ED102C13ED02ED20
: 10814000124620E996F126E5132E40E1FE0211BC0D
: 10815000020F26D9DCEB26D586049746CC55AA9784
30 : 108160003AD73A20F714470415ED107F008014F930
: 1081700001BD901012228012CC00020FD30EDD162A
: 108180000E14228014FCB014FE807F0200DC8E1A04
: 108190009390266012EA041096F0270C4A97F02676
: 1081A0000713F980037E833CBD850413D00445DCAE
35 : 1081B00090938E840F1A83001B24291A83000B24AA
: 1081C0003312ED022F7C00ED13ED022815ED18138C
: 1081D000ED200E15ED20CCCFD30EDD1886409795
: 1081E000237E80F815ED0112ED080914ED181547EE
: 1081F0000415ED02CE00E24FBD904E263F5D2735BF
40 : 108200002B0D13D0202CDCEB2628BD842620231335
: 10821000F1FF03BD89525313EA080E13002008B67C
: 1082200002342B03BD857AC6C8D7F013D01003BD26
: 10823000842F7E818A1380FF607E80F881802602F1
: 10824000C840FD0201817226037E83364D2A0A81D1
45 : 10825000852406818224422016847F816C276481D4
: 108260006F276081672708128D0404C10A2454B661
: 1082700002002639FC0201FD02038D20FD0205CC1F
: 108280000267F102012707F60202C10524028609EE
: 10829000138D04028613B702007E818DCC0000CEC0
50 : 1082A00001001E00FF06EB001B0820F639FC02014E
: 1082B000B3020326BF8DE5B3020526B87A02002675
: 1082C000D820058DD7FD020513D0042214ED20FC23
: 1082D00002011AB30207261CFC02051AB302092682

[0027]

[A table 2]

表 1 の 2

5 :1082E0001313ED10B41223400B15ED1020ABBD900D
:1082F00026152280FC0205FD0209FC0201FD020791
:108300002A0D81822409BD88E515F9017E810B7D46
:1083100000F12705BD8952200713D04003BD841901
:10832000B6020181702606BDC9BBF70202CE01006C
:108330004FF60202205114F9807E818A15F980BD22
:10834000902615228013D00803BD8445BDE778240C
:108350000A13D00803BD84577E817113D00803BD72
10 :10836000845713D04003BD841913EA02058617BD54
:108370008662BDE7B6FD020113EA0803BD862CCE76
:108380000C00DC90830C00188F8D32188C000027B5
:1083900024CC55AA973AD73AA6002A11F60201C171
:1083A00072270A818026068D1E8D122003BD8662EB
:1083B00008180926DC8D1015F9017E810B3CCE00D2
15 :1083C000D2C600D7F520043CCE00DAC608A6002AA3
:1083D0003D818026069681847F20338181260E860A
:1083E0005DBD86629682BD86629683202181852648
:1083F0000796F5BD88C720198186260496F5200EBC
:108400008187260D085A270DA60097F52003BD8603
20 :1084100062085A26B838398D0086200F9BEB97EBFF
:108420000E398D028D0086100F9BEC97EC0E39DC17
:10843000EB2611CC0258D30EDD1ECC08039723D7B0
:108440006814220839DCEB26FC122208F8B6807585
:108450008D0CC603D76839C600D768B68074D6D0ED
25 :10846000C4035C5858B1807527015810DD4439CCDD
:1084700000FA9708D709C620D700CE4000FF020BAC
:10848000FF020DCE4020FF020FF0211862C972D18
:10849000CCE428DD42CC054F9746D748CCFF40NDE1
:1084A0004986009747CC0000DD4CBD84EBA600C692
30 :1084B00096DD60869CE601DD62CC2270DD64CCFF37
:1084C0003EDD66C6E7D775C6FFDD698613976BCCCO
:1084D000FAFBDD6ECCFCFDDDD6CDD7186359770CC72
:1084E000FEFE0DD738610DD77977939CE84F4C60001
:1084F00058583A39E2840480A4D30DA3C4C20900B9
35 :1085000083E31200CC55AA973AD73ADCPE2BFCDD68
:1085100090DCFCDD8E14FE8039DCFCDDFEDC40C529
:108520000127FADDFC8DC4ECO2D316DD1686809798
:1085300023CC3E229767A601DD63CC70FFDD65CCBE
:1085400010FEDD77977C3B96D18407438417972BE9
40 :10855000CC0038D4D1C12825028610972C398678D2
:1085600097818658978286309783BD83BD864EBD9E
:1085700086628652BD86627E83C74FF602325C37C2
:108580008FFC0234028FBD860E86788D866233BDB5
:10859000860E863DBD8662FC0234B302388D5F864E
45 :1085A0002B8D77FC02388D56863D8D6EFC02348D06
:1085B0004D86208D65FC023C8D44FC023CF3023864
:1085C000830002B302342533DD9886208D4CFC02F3
:1085D00038830002DD9ACE0046DC98050505939AA3
:1085E0002515939A25110909939A250B09939A2524
50 :1085F0000609939A2501098F178D677E88AFCE00F3
:108600002F0883006424FACB648F178D558F862F33
:108610004CC00A24FB8D4B178B3A204620457261D3
:1086200073202BA02045727273203DBEFC023405DE
:10863000F31FFE83140004FD023CCC1400B31FFCA6

[0028]

[A table 3]

表 1 の 3

5 :10864000048DB8CE861C8D14FC1FFCB31FFE048D55
:10865000ADCE86248D067E85B18D0708A6002AF949
:10866000847F3C3716D8F5D7F512D12016847F13B6
:10867000D1100A1688805425FB26FB888013D10868
:10868000028880FE0211A7008D188655973A4397FD
:108690003ABC020F27F4FF02113338150020142DC5
:1086A0008039088C40802503CE402039122E204B83
:1086B000FE020FBC0211273C13D1C00E13D140069D
:1086C00012080433200412EE042D142C4012D13071
10 :1086D000022013A6005F13D108015C4425FC26FB91
:1086E000542503152C40A600972F8DB6FF020FBC12
:1086F00002112629140020152DC03B962FFE020DD5
:10870000A7008D1AFF020DBC020B2704132E0818B8
:10871000BD842213EE010614EE02FF020B3B088C0F
15 :1087200040202503CE40003912EE01F114EE010E77
:10873000FE020B2013CC55AA973AD73A12EE020D3F
:10874000FE020B8DD9FF020BBC020D260415EE03B1
:108750003BDCF6847F847FDDF7A60097F6D6F4260F
:1087600072814226037E87E8847F811826108680E6
20 :10877000D6F7BD88E515ED101480017E8735811987
:108780002604868120EA810D2605BD8CD520A613FE
:10879000D180198113260514EE0420998111260C2D
:1087A00015EE041200208E142D80208912ED081978
:1087B00012D004158112260514ED502013811426C1
25 :1087C0000815ED50148001200781072603BD841988
:1087D0007E8735C10122098142270D7F00F4208860
:1087E000C1032228814F26F37C00F42730860691AE
:1087F000F42608972F1522107E8735CCEA60D30E19
:10880000DD1C861097231422107E8735C1052204B3
30 :10881000815420D236860A8F32A70020CB0FBD0AA2
:10882000060E7E87358640972512D0043512ED401E
:10883000311343021615ED0412ED02267C00ED13F0
:10884000ED021F15ED18148080201715ED0112EDB3
:10885000081086049BED97ED13ED080615ED021444
35 :10886000ED1013EB1F1113EBFF1B7A00EB13EB184A
:1088700011C603D768200E13ECFFEB7A00EC12EC64
:1088800008EF5FD76813D1400F1200200B122D8024
:108890000712080403142D803BCC10009723D7F453
:1088A0001522103BCC08009723D7681522083B36C9
40 :1088B000860DBD8662860ABD866232398F8D028F33
:1088C00039368D0C172001368D0686208D143239ED
:1088D0003644444448D0332840F8B308139230263
:0588E0008B077E86629B
:1088E50080812B03271739C041250FC107240B5859
45 :1088F500CA40D7F17F00F27E84177E842217D6F115
:1089050027F8812E272B812A2743812027665D2A78
:1089150016CA10803025E3810A25168007810A25AD
:10892500D98114250C8B37804B25CF810922CBC4E7
:10893500EFD7F1C40FCE89443AEE00D6F16E008927
50 :10894500BF8A258AC28B8A8B8F8B948B52CE8000EF
:1089550018CE00D0C61BBD8DECBD845BBD85477DA3
:1089650000F12601397F00F115ED120E7E8417CE38
:1089750080502003CE00D018CE0C00C61BBD8DEC58
:10898500CE0C0018CE001BBD89B3ED00CE801D189E

[0029]
[A table 4]

表 1 の 4

5 :10899500CE0C1DC623BD8DECBD8E43CE0C0018CF6E
:1089A50080000FCC55AA973AD73AAD4020ABCC0002
:1089B50000EB001B08180926F839812E261FB68002
:1089C500505D2B0BD6D0C40484FB1B97D0204BD60F
:1089D500F226048403202994F2273A2034C5102670
:1089E5001781062429CA80D7F11627078600465A1B
:1089F50026FC16D7F27E8419D6F2260D8104240EA4
:108A0500D6D0C4FC1B97D020114A2B0527077E849E
:108A150022DAD0200353D4D0D7D0BD84587E84190D
10 :108A2500812E26395D2B078D13B68051206AD6F22B
:108A35005A2B1A271C5A27118D02206D96EA847F1E
:108A4500F6806AC4801B97EA39C63F2006C6F8201F
:108A550002C6C71743B48051D4D11B203BC510268D
:108A65000D81042455CA80D7F197F27E8419D6F278
15 :108A75005A2B39273F5A27114A2B042707203B1425
:108A8500EA80202515EA8020208103242DC63F4851
:108A95004848484848D4D11B97D1BD854715EE04B1
:108AA50096D185C02603142D807E84198107240A5A
:108AB500C6F820E1C6C7810825D87E8422812E26E6
20 :108AC50020CE805218CED0D25D2B07C610BD8DEC8E
:108AD5002078D6F22B07CE805A18CE00DAC60820A9
:108AE500ECC51026294A2B05270A7E84228688CEC6
:108AF50000D220058608CE00DA97F2C43FCA80D797
:108B0500F1840FC6FFE700084A26FA7E8419811012
25 :108B150024D8C540260F97F396F2850F27CCCA4077
:108B2500D7F17E8426C4BFD7F1165858585896F306
:108B350005050505C608D0F22A05CE00D22003CECC
:108B450000DAC40F3AA7007A00F27E8419812E2636
:108B55001496ED49595959FA8050C40496D084FBAE
30 :108B65001B97D0201AC51027037E84224A2B042781
:108B75000720F614D004200712ED80ED15D004155A
:108B8500ED127E8419CE8C812008CE8CA72003CED1
:108B95008CC6812E277CC51026214848484897F366
:108BA50081902707BD8C60290FD6F1C4BFCA80D735
35 :108BB500F196F397F27E84197E8422810225168030
:108BC5000A25F54CD6F2C4F01B97F3BD8C6029E855
:108BD50014F14020DC3696F28190270CBD8C603272
:108BE5005D27D54A8D1D2018324D260CCE806B1879
:108BF500CE00E2C609BD8DECD6F1C47FCA40D7F1DF
40 :108C05007E8419270518EA0020045318E40018E7A4
:108C1500003996F2819027E036C1C024088A0FC535
:108C2500402702867F97F396F23C8D2F382914183A
:108C35003C188F8300E2C38062188F1718A40018B0
:108C4500388DC0DCF24C97F21123DE3297F220B05A
45 :108C5500C1FF260D85F027228010D8E600C1FF27F9
:108C65001918CE00E2C40F183A08E600C1F024E056
:108C750085F026F54D27044A20EF0B39F08040207A
:108C8500100804FFF1804020100804FFF280402006
:108C9500FFF206FFF201FFF60804FFF501FFF5807C
50 :108CA500FFFFF30080001008442201F40804FFF4DC
:108CB500008040200201FFF410FFF680FFF620FF40
:108CC500FFF502F801020408FFF540FFF520FFF5C
:108CD50096F88116263615EE80D6F7C52027051499
:108CE500EE80C4DFC1412524C1452420C143271D91

[0030]
[A table 5]

表 1 の 5

5 :108CF500BD8FDEC14126037E8D27C1422608BD8E6C
:108D05004EBD84192003BD8EDABD8FDE398606BDC2
:108D150086628615BD866286FEBD866286FFBD8635
:108D25006239CC55AA973AD73ADCEB26F50FB70A44
:108D350006CE8D4518CE0C40C6FEBD8DEC7E0C4092
:108D45008D6B883A26FAB70A05CE0A0A8D6D260379
:108D550014EE1016CB048D635A26FB4D26E218CE71
:108D65000A0EFC0A0BC4C0B30A062720183CCE0C19
:108D75000018FE0A062A028D4EFC0A0BC4COFD0A25
10 :108D8500062A078F18CE0C008D5B18388D657A0A78
:108D95000A2ECF8606972F13EE10A5CC55AA973A23
:108DA500D73A122EC00220F3FEFFFE6E00865597BD
:108DB5003A43973A132E20F5962F398DF0A70008E0
:108DC500BB0A05B70A0539CCAA55B7D555F7AAAADE
15 :108DD500CCA0FFB7D555F7D5578D0A180918A100AE
:108DE50026FB180839C640A60018A7000818085A17
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:108E05001A83FFB0240D178A41B70A08869BB70A53
:108E15000920088600B70A08B70A09860CC43F8FDF
20 :108E250018E60017F00A09F80A08E7007D0A08277E
:108E350003B70A09FE0A0B08FF0A0B180839CE8D7D
:108E4500CCC62C18CE0C40209EBD8FA136BD8FA15F
:108E55001632FD0A0BBD8FA136BD8FA11632FD0A54
:108E650003CC0000FD0A068610B70A0AFC0A03B304
25 :108E75000A0B1A8300102C045CF70A0A7F0A059670
:108E85003ABD8662B60A0A2736BD8FBBFC0A0BBD02
:108E95008FBB17BD8FBB4FBD8FBBF60A0AFE0A0BF2
:108EA500BD8F41BD8FBB5A26F7FF0A0BB60A054099
:108EB500BD8662BD88AFBD8FA18106261020A8C6DC
30 :108EC50007CE8ED3A600BD8662085A26F739000064
:108ED5000001FF0D0ABD8FA136BD8FA11632188F77
:108EE500CDEE002702AD0039CE804018CE00001827
:108EF500FF0A0618FF0A0118FF0A03CC55AA973A7C
:108F0500D73A8CFFBC2603CEFFC08C000027188BDC6
35 :108F15008F4118FE0A0116183A18FF0A01188FF337
:108F25000A03FD0A0320D4FC0A01BD866217BD862B
:108F350062FC0A03BD866217BD866239373CC601ED
:108F4500F70A0D8F1A83805025461A83FFB02440F7
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40 :108F65000938F60A0DA600B80A08BB0A09B70A09A6
:108F7500085A26F13339B30A064D2606C5F02602EE
:108F850020DFC40F5CF70A0D388FC4F0373620C4D4
:108F9500CC0000FD0A063833A60008393CFE020B5A
45 :108FA500BD871EFF020B8655973A43973ABC020DC3
:108FB50027F4A600383936BB0A05B70A05327E867E
:108FC50062363C8655973A43973AFE0211BC020F2A
:108FD50026F1132E40ED38323937BD8FC613EE40DA
:108FE50005B60A00200F96D1B70A0012EE80048656
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:1090200090DD8E3332393686E49742158D803239A1
:10903000CCFF05CE0B00A7003A8C0B5025F8C608D4
:10904000CE0B80A7003A8C0BC025F83620CA9F961D

[0031]
[A table 6]

表 1 の 6

5 :10905000978CEC00DD84EC02DD86EC04DD88EC0608
:10906000DD8A128D80028DA8CCFF9DD947F00810E
:10907000138C020613910238200412910232BD9221
:10908000AB26191381FF037E9127863C979CBD92E6
:10909000AB26097A009C26F6CC0000391389020A17
:1090A000158D067EC9EFDE92EC01A3039394247024
:1090B000BD92AB260220E17C008113890206158D4A
:1090C000067ECA9496818114260A13894014158D50
:1090D000067EAF178112260A13892006158D067E9B
10 :1090E000B1EF158D0696818111250D138790022011
:1090F000041388C0037EA8F7139480057C0095268E
:109100001CDE92EC01A31BDD940404D3940404DD63
:1091100094EC1BA31D93942504860797817E907E73
:10912000DC92C30002DD9296815F5C800522FB2603
15 :109130000EC102253C13858038158D067E92E84CC1
:10914000261D5AC101232AD7BC13868006158D0619
:109150007E97821386041AD6BC158D067E99A28B43
:1091600003260EC002270A13860206158D067E9A74
:1091700031968116C403260E8108252E1384802A79
20 :10918000158D067E9AD5C101260E8115251C138AE0
:109190002018158D067EA77EC103260E8113250A91
:1091A000138A8006158D067EA6B696815F5C8003C5
:1091B00022FB261CD7BC138A080AC1042506158D7C
:1091C000067E9E0B1386012DD6BC158D067E9FDC78
25 :1091D00008B0226215AD7BC1389800AC10325161594
:1091E0008D067EA0671389010CD6BCC10425061527
:1091F0008D067EA4279681810F2614138B080615F1
:109200008D067E94C1138B043E158D067E953F819D
:1092100014260A138B0823158D067E94F6811126D9
30 :109220000E138708221288801E158D067EA87E8167
:10923000122514138920037EB233968181142507E9
:10924000138940037EAF937E90681C00FFDF982057
:1092500007181C00FF18DF98D699C000DD9A978187
:10926000CE92D218DE98847F81622608138540044E
35 :10927000C0021809C10A2626EC02A3001809180921
:1092800018A300261908088C92DC25ECEC02A30038
:1092900018ED001808180808088C92E625EE9E962E
:1092A00096802603DC9A39CC000039DE909C8E270C
:1092B00021CC55AA973AD73AA60009E60009ED0154
40 :1092C000DF901490108C1BFF25068F84EF8FED012B
:1092D000DF9239CE931CDF6827A973ECCB31F87984
:0892E00041C59107D255168229
:1092E8005AD79E5AD7A07F009F969E4CC609DE92F9
45 :1092F800BD971B2639BD9573812A27078150262ED5
:109308007C009F7A009E270FBD95702721812A2710
:109318001D367A009E26F1EC27DDA3EC17A315E392
:1093280025ED27BD9570812A2709DCA3ED139E96AC
:109338007E9171129F0103BD976018CE010096A01F
:1093480027343318E70018084A26F713852027BD65
50 :1093580093DC17188C010025D52712183CBD93DC27
:10936800102A028B2B188C010022F218384D26BEC9
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:10939800A600BD9408085A26F796A32704BD94652D

[0032]
[A table 7]

表 1 の 7

5 :1093A8004F13850403BD946B361385400FCE01001F
:1093B800862ABD947C862A18A7001808CC41301349
:1093C8008520075C12851002CB02DB83DD82328A9E
:1093D800627E9251180918E600C03024153C36CE3A
:1093E800940117C624A1002706085CC12B26F63273
:1093F8003839C10A2502C00739FDFEF0F4FFFBF534
:1094080037D6A3270D8041811A251B8B4136178D2E
:109418004C32812B270C812F270881252704812492
:10942800263797A333391483044CC124272B8B2068
10 :10943800C12F27258B40C12B271F8BBA81202519C7
:109448008B1B814025138B1B8160250D8B1B2A09E3
:10945800163CCE96953AA600387F00A33318A7008D
:10946800180839B6010081202608CE01008D15861E
:1094780080394F39180818DF9CE600A70017089CA8
15 :109488009C26F63918DF9CA601A700089C9C26F7A5
:10949800180939814327078148264873009FBD95DD
:1094A800702740884097A3BD957027377D009F2B74
:1094B80004813220338143202FDE927F009FBD95A7
:1094C80073272081572707813126C873009FBD95D0
20 :1094D80070271097A3BD957027097D009F2B0781E2
:1094E8004127077E9205815726F986802070DE92F3
:1094F8007F009F8D762726815727078131261E7387
:10950800009F8D642717B701008D5D2710B70101F3
:109518008D5627097D009F2B07814127107E923A9F
25 :10952800815726F9B60101F60100FD0100C6FFF7D3
:109538000102CC8040202EDE927F009F8D2D2719BE
:10954800814B27078155261173009F8D1B270A978A
:10955800A38D152704814B27037E92478681C6FF7A
:10956800F70100D6A39E9639C6143A13850239C668
30 :10957800058D74DC98939A0DA104D3A1DDA18D6AD1
:10958800DC98939A93A12220DC98D39A04BD962163
:109598002B14C128241218CE96BD139F0102CB2C80
:1095A800183A18A600394F39EC01A313040404DD56
:1095B800988D662BF1C12825DD079CEC01A3039378
35 :1095C8009824E3EC05A307939824DBEC09A30B93F9
:1095D8009824D3EC0DA30F939824CBEC11A31393E9
:1095E8009824C3D69C20AF3C2005C6043C0808D765
:1095F8009DEC01A303DD98DD9A7A009D2719C60426
:109608003AEC01A3031A93982304DD9820EB1A93EC
40 :109618009A24E6DD9A20E23839DD9AEC03A3059313
:109628009A241DEC07A309939A2432EC0BA30D93FB
:109638009A244CEC0FA311939A25328D33CB14390D
:10964800EC07A309939A2444EC0BA30D939A24489E
:10965800EC0FA311939A24158D16CB1E39EC0BA38E
45 :109668000D939A2437EC0FA311939A2503C68039DA
:1096780013850206BD98D57E98F5DC987E98F5ECA2
:109688000FA311939A24E68DE7CBOA39EC0BA30DAF
:10969800939A2416C6292006C62A2002C62B37EC20
:1096A8000FA311939A3325C55D39EC0FA311939A33
50 :1096B80024BBC62839303132333435363738394A45
:1096C800414243444546474849544B4C4D4E4F5000
:1096D8005152532A55565758595A2D2E20242F2B5C
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:1096F80034303332395A552E2D59582A575620505E

[0033]

[A table 8]

表 1 の 8

5 : 109708004B52514F4E544D4C53252B2F2400406043
: 109718007F7F7F128A01024F393CDD987A009827B3
: 10972800248D24DD9C8D20DD9A939C2711250440EF
: 10973800508200050505D39A2504D39C2207DC9A9C
: 109748007A009826DE3839EC0137D699583A33A38F
: 1097580001139901020808393008089C9624171843
: 10976800DE96A60018E60018A700E70008180918F2
: 0A977800DF829C8225EC148D02397B
10 : 10978200D79ED7A058D7A17F009F969EDE92C6088B
: 109792003ADFA2C60ABD971B2625BD98B2DE92EC1F
: 1097A20001A30393982418EC03A305939A2410ECC5
: 1097B20005A30793982408EC07A309939A253096EA
: 1097C2009EDE92C6063ADFA2C60ABD971B266FBD71
: 1097D20098B2DE92EC01A303939A2462EC03A305F0
15 : 1097E2009398245AEC05A307939A25527C009FDE96
: 1097F200A2DC98BD98F52B46370808DC9ABD98F58F
: 109802002B3C37C6123A7A009E2705BD98B220E15A
: 10981200129F012FEC01A30393982522EC03A305C9
: 10982200939A241ADE9618CE010096A1E600CB3058
20 : 1098320018E7000918084A26F3148D0220329E9672
: 109842007E9153EC01A303939824F3EC03A30593B5
: 109852009A24EBEC05A307939824E318CE01009613
: 10986200A133CE99983AE60018E70018084A26F183
: 1098720013864010CE01004FD6A18D1D26C0128640
25 : 1098820020021809CC4930138640075C1286200258
: 10989200CB02DD8286657E9251AB0019AB0019AB1B
: 1098A2000019085A2707AB0019085A26EC840F3909
: 1098B2001286100CEC01A3158D2D04DD98DD9A396A
: 1098C2008D11DD98EC01A315939A8D1BDD9A180971
30 : 1098D200180939EC01A303E305A307E309A30BE38A
: 1098E2000DA30FE311A313DD9A04D39A04D39A04B0
: 1098F200040439DD9CEC01A303939C2427EC05A30B
: 1099020007939C243BEC09A30B939C2447EC0DA3E7
: 109912000F939C250CC60737EC11A313939C332499
35 : 109922005FC68039EC05A307939C2434EC09A30B92
: 10993200939C244EEC0DA30F939C244AC60120D77E
: 10994200EC09A30B939C2442EC0DA30F939C243EA1
: 10995200C60220C3EC0DA30F939C2436C60420B785
: 10996200C60337EC09A30B939C3324B537EC0DA344
40 : 109972000F939C3324AB37EC11A313939C3324A194
: 109982005D39C60520E6C60820ECC60620DEC609FB
: 1099920020E4C60020E036313837353430333239EE
: 1099A200D7A0D7A17F009F17DE92C6083ADFA2C6D2
: 1099B20009BD971B2628BD9ABE2723DD9CDE92ECAB
45 : 1099C20005A307939C25037C009FDEA2DC9CBD9827
: 1099D200F52B0B377A00A0270ABD9ABB26F09E967C
: 1099E2007E9171CC5230DD82EC19A31B939C24EE44
: 1099F200EC15A317939C139F011924E296A118CE8C
50 : 109A0200010033CE99983AE60018E70018084A2672
: 109A1200F1201725C996A1DE9618CE0100E600CBEB
: 109A22003018E7000918084A26F386667E9251D755
: 109A3200A0D7A17F009F17DE92C60C3ADFA2C6090B
: 109A4200BD971B26208D75271CDD9CDE92EC01A3A1
: 109A520003939C2510EC05A307939C250BEC09A30B

[0034]
[A table 9]

表 1 の 9

5 :109A62000B939C250E7E99E07C009FEC09A30B933F
:109A72009C25F2DEA2DC9CB098F52BE9377A00A08A
:109A820027068D3526F120DDCC533ODD82EC1DA377
:109A92001F939C25D0EC15A317939C139F010D24B3
:109AA200C4EC19A31B939C25BC7E99FE25B7EC1927
:109AB200A31B939C24AF7E9A17C6143ABD95F2EC71
:109AC20001A31304040404D39A939824024F39BDCA
:039AD200980539EB
10 :109AD5007F009FBD9CA02B1D79009FD7A27A009E79
:109AE5002708BD9CB32F0E377A009E26F5BD9CB380
:109AF5002A035424059E967E91AAD7A17F0083123E
:109B05009F0103BD9760BD9C4F25EACE010096A03D
:109B1500270733E700084A26F91384081396A1811D
:109B2500442607128404CE148D0496A28144272F5F
15 :109B35001384401A8F188FDCA1129F010117CE01E3
:109B450000BD947CDCA1139F010117A700088C01BF
:109B55000027A2CC4630DB83DD8286617E924ADF18
:109B6500A5DE92EC01DDA796939891261D861497A4
:109B75009CB092AB26147A009C26F6138404037EC2
20 :109B85009AFA148D04DEA57E9B35CCFFFD947F0C
:109B95000081BD92AB27E496818107251AEC01A3CC
:109BA5001BDD940404D3940404DD94EC1BA31D93E2
:109BB500942504860697817C0081BD92AB270DA371
:109BC50003939425CDDC92C30002DD92968116C4E1
25 :109BD5000326A8810825A4BD9CA02B1D251BD7A263
:109BE5007A009E2708BD9CB32F0F377A009E26F572
:109BF500BD9CB32A04C1882409864497A29E967EFB
:109C05009B80128C040CEC0F93A70404040493941A
:109C150024E7129F0103BD9760BD2F25DCDEA596F5
30 :109C2500A0270B139F010D33E700084A26F914837B
:109C3500017E9B2F18DEA5CE0100DFA532BD947CE9
:109C45007A00A027E9DEA50820F0138420267D00F0
:109C5500A02723148302DCA11B80823008088D18FD
:109C65001B089C9623F8840F260C12841006148377
35 :109C7500047A00A00C390D39E600C0302411CB055B
:109C85002503C60B3918CE9C9B183A18E60039C136
:109C95000A2502C60C390F000A0E0D4444A979E48
:109CA5004A97A0DE928D0A2A02543986FF39C610DA
:109CB5003A8D142B1018CE9DDB139F0102CB18187B
40 :109CC5003A18E600395F39C604BD95EFD98128471
:109CD50002060404D3982002D39A04DDA3EC01A361
:109CE5000393A3241AEC05A30793A3242FEC09A33C
:109CF5000B93A3243CEC0DA30F93A3255D2078ECD7
:109D050005A30793A32437EC09A30B93A3243BECEA
45 :109D15000DA30F93A324438D5ECA0339EC09A30B4E
:109D250093A3242AEC0DA30F93A3242E8D49CA02D5
:109D350039EC0DA30F93A324218D3CCA0139EC09FD
:109D4500A30B93A32417C6142006C6152002C61616
:109D550037EC0DA30F93A333240DC68039EC0DA367
50 :109D65000F93A324F5C617378D67DCA304D39A1A7E
:109D750093983325E55D398D58DC981284020604E5
:109D850004D3982002D39A04DDA3EC03A30593A37F
:109D95002413EC07A30993A3241EEC0BA30D93A393
:109DA50025B8C60039EC07A30993A32419EC0BA326

[0035]

[A table 10]

表 1 の 1 0

5 : 109DB5000D93A324A5C60C39EC0BA30D93A3240383
: 109DC500C60439C60839EC0BA30D93A3248CC61021
: 109DD50039C6037E95F430313435322D24398688E1
: 109DE500828536373833848389872F3A2B2E33384B
: 109DF500373639242D320000008435343130008265
: 069E050088863A2F2E2B87
: 109EOB005AD79E5AD7A1D7A07F009F969E4CC605C6
: 109E1B00DE92BD971B2634BD9EE12B07C136262B48
: 109E2B007C009F7A009E270BBD9EDE2F1E377A008B
10 : 109E3B009E26F5EC17DDA2EC0FA30DE315ED17BD78
: 109E4B009EDE18DEA21AEF0B5D2B059E967E91C44B
: 109E5B00129F0103BD9760CE010096A1270733E740
: 109E6B0000084A26F9D6A15A860A138A040A5A8D83
: 109E7B003026D8D6A15A86098D2726CF138A0401FE
15 : 109E8B00093CCC3A2DA1002602E700098C00FF26E5
: 109E9B00F438CC4832138A04015CD08286687E92EA
: 109EAB004A979E4F4CD09E22F8DB9EDDA2CE01003B
: 109EBB004F5FCB30E0002402CB0B1024028B0B083E
: 109ECB007A00A326EDD69ED7A37A00A226E38B3089
20 : 109EDB00A00039C60C3A8D2E2B1018CE9EF7139F6F
: 109EEB000102CB0D183A18E600395F3930313233A5
: 109EFB003435363738393AFF00393138373534FF96
: 109FOB003332303A3600EC01A30BDD9804D39804BE
: 109F1B00D398040404DD98EC01A30393982423EC59
25 : 109F2B0003A30593982446EC05A3079398245DECB3
: 109F3B0007A3099398246CEC09A30B9398256FC680
: 109F4B000039EC03A3059398C6032465EC05A3071E
: 109F5B009398C6052465EC07A3099398C608246556
: 109F6B00EC09A30B9398C6012465C60939EC05A32C
30 : 109F7B00079398C6062444EC07A3099398C60C24B0
: 109F8B0044EC09A30B93982525C60239EC07A309CA
: 109F9B009398C60B242FEC09A30B9398C604242F7C
: 109FAB00C60A39EC09A30B93982503C60739C6FFDC
: 109FBB003937EC05A30793983324F337EC07A30940
35 : 109FCB0093983324E937EC09A30B93983324DF5D83
: 019FDB00394C
: 109FDC005AD79E5AD7A07F009F969E4CC605DE92FC
: 109FEC00BD971B261EBDA0362A19D79F7A009E2727
: 109FFC000BBDA0332F0D377A009E26F5BDA033D1B3
40 : 10A00C009F27059E967E91F5129F0103BD9760CE0A
: 10A01C00010096A0270733E700084A26F9CC5830F0
: 10A02C00DD82866D7E924AC60C3ABD9F112B1018AC
: 10A03C00CEA04D139F0102CB0D183A18E600395FE4
: 10A04C0039FF3132333435363738FE003039FF3191
45 : 0BA05C0038373534303332000036391D
: 10A067005AD7A3D7A45AD7A25AD7A5148D01DE92DF
: 10A07700BDA27881FD27133680678103244CC6066D
: 10A0870096A44CBD971B274F2040BDA2CA81FE2630
: 10A0970039C60696A44CBD971B262F7A00A3270C1A
50 : 10A0A700C60CBDA2CC36816725F1201EEC19DDA6B2
: 10A0B700EC17A313E317ED19C60CBDA2CC18DEA647
: 10A0C7001AEF0D3680678103251C9E967E91E5BDAC
: 10A0D700A275816724F4367A00A326F3BDA27581A1
: 10A0E700FE26E7BD9760BDA2FC26DF30DFA0CC438C

[0036]

[A table 11]

表 1 の 1 1

5 :10A0F70030DD82866A9781BDA219C067BDA1172787
:10A10700C996812B0813891004138301BD7E9251D0
:10A117009F9E96A297A318CE0100CEA22D583AEE85
:10A12700006E0038D6A3D0A227035A260314830152
:10A137005A2603148302C68120393B148180C682C7
:10A14700203138D681C401CA82D781C683202438FA
:10A15700C684201F27F9C16027E8C16127DCC166D3
:10A1670027C1C167264238D6A3D0A25A260B14832B
:10A1770004C68013890831202AC680202638200289
10 :10A187008D1BBDA219C06025F7CEA23B8D8F20F293
:10A197008D00BDA21AC1658DBBC0602430CB2025C0
:10A1A70002CB6018E700180839BDA12B200538201D
:10A1B700028D1C8D5DC06025F8CEA251BDA1242063
:10A1C700F28D028D008D4CC1648D89C0602452CB05
15 :10A1D7008020D08DA12B200D8DEB20098DE520051A
:10A1E7003820028D1B8D2BC06425F8CEA267BDA138
:10A1F7002420F28D028D008D1ABDA165C064242133
:10A20700CB64862F4CC0CA24FB18A7001808CB3A4A
:10A217002091864F7A00A22B09DEAOE60008DFA076
20 :10A22700394F9E9E4D39A189A1BAA1ECA1B0A1DAFF
:10A23700A1DFA1E3A14AA142A1CCA1E7A1B5A15702
:10A24700A12BA16EA1CAA1FCA1FAA14AA142A19981
:10A25700A1E7A157A184A12BA16EA197A1FCA1FA07
:10A26700A1B5A184A12BA16EA1CCA1CAA1C8C60C7E
25 :10A277003A8D18EC07A30B8D29EC05A3098D23EC68
:10A2870003A3078D1DEC01A3052053EC01A30DDDEE
:10A2970098270A04D398DD9AC601D79C39313186AD
:10A2A700FF39DD9E0505138D0102D39E05D39E93CD
:10A2B7009A25EA7C009C939824F9DC9C0404860187
30 :10A2C700DD9C39C6023A8DC3EC03A3078DD4EC0598
:10A2D700A3098DCEEC07A30B8DC8EC09A30D8DC286
:10A2E700D69D18CEA327128D010418CEA5B6183A0D
:10A2F70018A6004A39DE96A600408B67095F7D00E5
:10A30700A52711E0002402CB671024028B67097A86
35 :10A3170000A526EFAB0080678167250280674D396E
:10A3270003240031000000000005F00230600000244
:10A337000000170927003D13000000002D0026002C
:10A3470000380030000000000066003719000000E8
:10A357000B00001C3B3E500014004D0018153A0A34
40 :10A367002A004E1E000000000300290000001D0CCB
:10A377000000000000000000000044450000212C
:10A387006300FF4B000000006700620000004A57AF
:10A3970000000000000000000000001A1B00005C25
:10A3A7000064002E1000000002F0039000000009C
45 :10A3B700000000006500600000004F5461003C4C45
:10A3C7000022005E00004100005D000040005100D7
:10A3D700000D004625002C00004758002B000059AF
:10A3E700360F34070800001635493F000E004800B5
:10A3F700000000111200005B00000000000000D8
50 :10A407002800320000685500FE000056006A006907
:10A41700010500000020430000520042045A531F68
:10A427005AD7A1D7A25AD7A0158D01DE92BDA2781F
:10A4370081FE272581FD265AC60696A14CBD971B8E
:10A447002650BDA2752B4B367A00A026F5BDA27506

[0037]

[A table 12]

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http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web/cgi_ejje

表 1 の 1 3

5 :10A7AE00043A4976009D24E2969D44444443996E9
:10A7BE009EC608BD971B26168DCC367A009E26F8AF
:10A7CE000808BDA7E181032605BD976020459E962A
:10A7DE007E91AA861F979DEC03050505A303A3058D
10 :10A7EE00A305A305A305A301A301A301C6043A492A
:10A7FE0079009D24E2969D43390808969E4CC60822
:10A80E00BD971B26C98DCC367A009E26F88DC48145
:10A81E000B26BB30DFA0D69F5A5A3AEC0058585838
:10A82E00581B979CC6979CA0271C09A6000D49484B
15 :10A83E0048484827F12408D79DD89CD79CD69D54CC
:10A84E0024F0C89720EC969C2684CE0100D69F5A01
:10A85E005A328B30813A25082604865820028B07FF
:10A86E00A700085A26EBCC5030DD82866E7E924AC7
:10A87E007F00B2DE92EC0DA315BDA9382426080880
20 :10A88E00CC0604BD9721261CC602BDAD0718CE010D
:10A89E0000BDAD5C240EBDA94A2409BDAB8FD6A563
:10A8AE0054542031DE92EC07A30F8D79BDA94624B6
:10A8BE0035EC3305A32BA33D2A2C0808CC0604BD8A
:10A8CE0097212622C636BDAD07BDAD412418BDA9C0
25 :10A8DE003E2413D6A4CEAED73AE6002A09863150CE
:10A8EE0014B210BDAA497E924726631387105FDE0D
:10A8FE0092EC0DA3158D3324550808CC0604BD9794
:10A90E0021264BC602BDAD0718CE0100BDAD5C249D
:10A91E003D8DA94A24387F00B2BDAB8FD6A5545495
30 :10A92E00BDA3D2029DDB07EAD928DF98D0E241D80
:10A93E008D0A24198D0624158D022411EC010808A8
:10A94E00A303DD9C050505939C939A939839DE929B
:10A95E00EC07A30F8DCF8DE024687F00B2EC2305AA
:10A96E00A31BA32D2A07138840587EAADCEC3305BF
35 :10A97E00A32BA33D2A4C0808CC0604BD97212642E2
:10A98E00C636BDAD07BDAD412438BDA93E2433D674
:10A99E00A4CEAE973AA60027292A7DD681C11E25C0
:10A9AE00214097A3DEAE0909CC0604BD97212612DD
:10A9BE008BDAD5C240DBDA94A240812A38007D6A5FF
40 :10A9CE0027177E90F8D6A55454CEAE973AA60027F8
:10A9DE00F1402BEE97A3BDAB8F96A3CE0100C60C14
:10A9EE00BD989B26DD18DEAA96A381302604128719
:10A9FE008010138880CCCE0100BD947C18DFAA7E17
:10AA0E00AB3912874002180912872006CE0100BD0D
45 :10AA1E00948C18DFAA7EAB4D138710A6BD92AB2780
:10AA2E0008EC01A30393942599D6A48D022093CE0E
:10AA3E00AE973AE60027402B3E8630B70120F7014D
:10AA4E002BF70106FC0100FD0121FC0102FD012393
:10AA5E00FD0128FC0104B70125B7012A8630B70194
50 :10AA6E0026B70127C1332310B70128B70129C134F6
:10AA7E002713F7012A2011392605B701282003F7DD
:10AA8E000123B70124B70125CE0120C60CBD989B2A
:10AA9E0026E518DEAA13870114CE012118CE010077
:10AAAEE00A60018A7000818088C012B25F31387049D
:10AABE0008B6012BB7010A180813870209B6012040
:10AAACE00CE0100BD947C18DFAA31317EAB4D96814C
:10AADE00811625540808CC0404BD9721264AC626A3
:10AAEE00BDAD078610BDAD43243EBDA93E2439DE63
:10AAFE00AE0909CC0404BD9721262D8608BDAD5E96

[0039]

[A table 14]

表 1 の 1 4

5 :10AB0E002426BDA94A2421EC03A30793982519DE18
:10AB1E00A48C0F0027078C00F0260D8D64CE01004B
:10AB2E00CC0008BD989B27037E90F8128820037AEC
:10AB3E0000AB14B2021388032396884848200613EC
:10AB4E00880C19968897A512B201048D3F2003BD7B
:10AB5E00AC65CC0C3395B22609148D0412881017EF
:10AB6E00C6308645DD82CC6302D88DD78D13B202F6
:10AB7E00014CDEAA7E924A13B210037E92477E905B
:10AB8E00F814B201CE010018097E976ADEAECE0110
10 :10AB9E00A30305939A254F04939A244AEC03A30723
:10ABAE00BDA9502441EC05A309BDA95093982436A4
:10ABBE00EC11A315BDA950242DEC1DA321BDA95048
:10ABCE00242813A50420EC29A32DBDA9502417EC8D
:10ABDE0035A39BDA950240E86088D1C24088D3846
15 :10ABEE00260418DFAA3915B20C3913A508F88640C9
:10ABFE008D0624F28D4420E897A4C6083A18DEAAE2
:10AC0E00862018A7001808BDAD7C240BBD4E4AC621
:10AC1E000C3A7900A424F03914B204DEAA08CC0050
:10AC2E0005BD98A8161B191B19D6A4CEAED73AE6A9
20 :10AC3E0000270410840F3986013914B208DEAAECFD
:10AC4E0001481B9BA48403810339D79DBD92AB277A
:10AC5E00E67A009D26F639CC050DD09C7A009C2700
:10AC6E00F5BD92AB27F68DE426ECD0B0BDAD92ECD3
:10AC7E001BA31D05939A25DE04939A24D9EC17A1E2
25 :10AC8E001BBDA95024D0EC15A319BDA9509398242F
:10AC9E00C5EC09A30DBDA95024BCDFA6C612BDACE0
:10ACAE00582627EC21A325BDA950241E13A504A6C2
:10ACBE00EC15A319BDA950249DEC09A30DBDA950F7
:10ACCE002494CC08308D117EABEA13A50888DEA63D
30 :10ACDE00CC400C8D037EAC0097A43A18DEAA8620D9
:10ACEE0018A7001808BDAD9A240E8F83000C8F5D37
:10ACFE00BDAE4A7900A424ED393CDE923AEC01A3B4
:10AD0E0003E305A307DD9AEC01A30938939ADD98B6
:10AD1E00D39A7F00A204040404DDA62715DC9893C1
35 :10AD2E009A25087C00A293A624F9397A00A2D3A60C
:10AD3E0024F939860497A418CE01008D31242EBD36
:10AD4E00AE4AC6083A7900A424F1C60C2015862016
:10AD5E0097A58D182417BDAE4AC6083A7600A524AD
:10AD6E00F1C606DFAC3ADFAE18DFAADEAC398D10C5
40 :10AD7E00EC03A305E307A309DDA0EC05A309201C42
:10AD8E00EC01A309DD9804D398DD9A398DF2EC011C
:10AD9E00A303E305A307DDA0EC01A305DD9C0505D8
:10ADAE0005939C939A2523DD9CEC03A307DD9E055A
:10ADBE000505939E939A2512DD9E9398252A9398C6
45 :10ADCE0025429398255A939825020C39DC9C93982A
:10ADDE00250D9398250C9398250B9398C66639C626
:10ADEE006739C66A39C66B39DC9C9398250D9398E2
:10ADFE00250C9398250B9398C66D39C66C39C6737E
:10AE0E0039C67239DC9C9398250D9398250C93982E
50 :10AE1E00250B9398C66039C66139C6C839C6CB3979
:10AE2E00DC9C9398250D9398250C9398250B93985D
:10AE3E00C66939C66839C6C739C6C4392A4437DC2B
:10AE4E0098040404DDA84FD6A2DDA6DCA0050505F6
:10AE5E0093A07D00A227122B0993A87A00A726F9AA

[0040]

[A table 15]

表 1 の 1 5

5 :10AE6E002007D3A87C00A726F97C00A6939824F986
:10AE7E0096A6335425068103230620068104230259
:10AE8E00CB0C5418E70018083980000000000000B1
:10AE9E0030000000031003233000000000340037383B
:10AEAE00000035390036000000000000CA00C7CB94
:10AEBE000000C8C900CC000000000CDCE00CF0000B0
:10AECE00000000000000000000D0000000000000A4
:10AEDE0030000000310032330000000034003738FB
:10AEFE00000035390036000000000000CA00C7CB54
10 :10AEFE000000C8C900CC000000000CDCE00CF00007D
:09AF0E0000D000000000000000006A
:10AF1700DE92C6083ACC0506BD9721266ABDBOC2A7
:10AF270027652563D7A496A797A5BDB0BF27582542
:10AF37005696A790A54797A7D7A5D8A4C503264790
15 :10AF4700C40458DBA5C40FD7A8C644BDB10724372E
:10AF5700148D01DE92C605D7A9C608BDA2CC2A0664
:10AF670081FD2623866A3697AAEC03A305E307A388
:10AF770009E30BA30DBDB136240DC60C7A00A92633
:10AF8700DACE90E27EB00D9E967E90E2DE92C60A01
20 :10AF97003ACC0506BD97212668BDB0BF276324615B
:10AFA70096A7DDA4BDBOC22758245696A490A747FC
:10AFB70097A7D7A4D8A5C5032647C40458DBA4C4BC
:10AFC7000FD7A8C608BDB1072437148DD1C605D70A
:10AFD700A9DE920909BDA2752A0681FD2623866A84
25 :10AFE7003697AAEC01A303E305A307E309A30BB067
:10AFF700B136240D7A00A926DCBD9760CE92472092
:10B00700059E967E9247DFA2CE0B00D6A85858DB46
:10B01700A83AC605D7AC32A1002705A70014AC8013
:10B02700085A26F296AC2A5ECE0B00A6002B4EC617
30 :10B03700053A60002B47800724F78B0797AD3A0930
:10B04700DFAAA600408B6B5F09E0002A02CB6B10DA
:10B057002A028B6B8C0B0022EF4D2621DEAA09A654
:10B0670000408B6B5F09E0002A02CB6B102A028B32
:10B077006B8C0B0022EF1027138B6B270F148D405F
35 :10B087009E96C6014F399E96DEA26E00CE0B01DF5B
:10B09700A0CC4B30DD82866F9781DCAA830B02D769
:10B0A700A2D6ADBD11727DE8680180918A10027F3
:10B0B700F9180896817E9251C646815FDE923ABDA5
:10B0C700AD7C25025F392A0154C1722502C00437BD
40 :10B0D70054CEB1B73AE600D7AA7F00A7DCA0050592
:10B0E7000593A093987A00AA26F90505052B077CF6
:10B0F70000A7939824F97A00A7D39824F9335439F1
:10B10700DE923AEC01A303DDA096A797AB96A005C4
:10B11700050593A09398050505057D00AB2B0793BF
45 :10B12700987A00AB2AF9D3987C00AB2BF92039DD4C
:10B13700A0D6AA18CEB17C183A18A600D6A7DDAAC1
:10B14700DCA00505D3A005D3A0939893987A00AA0D
:10B157002AF70505057D00AB2B07D39A7A00AB2AA2
:10B16700F9939A7C00AB2BF94D2A044050820004D6
50 :10B177000404939839020202010101010101014E
:10B1870001020202020202020202020202020298
:10B1970002020202020201010101010101010291
:10B1A70002020202020202020202020202020276
:10B1B70002030102010101010101010101010174

[0041]
[A table 16]

表 1 の 1 6

5 : 10B1C70001010301020202020202020202030358
: 10B1D7000302020202020202020303030101020245
: 08B1E700030303050303050344
: 10B1EFO0DE92EC43A347A301E3032A33C6023ACC12
: 10B1FF000408BD97212628BDB37B2423FDOB76BD04
: 10B20F00B37B241BFD0B74BDB37B2413FDOB72BDED
: 10B21F00B37B240BFD0B70CC90E2CEB6F920479E8A
: 10B22F00967E90E2DE92EC01A305A345E3472A2820
: 10B23F00C6043ACC0408BD9721261DBDB338241887
10 : 10B24F00FD0B70BDB3382410FD0B728DB33824084D
: 10B25F00FD0B74BDB33825059E967E923AFD0B7695
: 10B26F00CC923ACEB6E9DDA7D6A6C40F3AA60027F0
: 10B27F001897A418CE0B705FBDB436BDB42DBDB4F6
: 10B28F002DBDB42D18E1072704DEA76E0018CE0BD5
15 : 10B29F0070CE0B78D6A45858583AC608D7A518A61A
: 10B2AF0000A1002705A70014A58018A608A740082D
: 10B2BF0018085A26E996A52AD0B60BB82B30B60B2C
: 10B2CF00FECE0B787F00A4C6087C00A43A6D002B3D
: 10B2DF001D800724F48B0797A596A44848979E8155
20 : 10B2EF0018250ECC0026CEB70BDB45327037EB066
: 10B2FF0084CC0110CEB70ABDB45326F2CC0214CEC3
: 10B30F00B709BDB45326E796A4C6073DC12A240248
: 10B31F00CB02D79ED79FCC5430DD82866C9781BDF0
: 10B32F00B4EB27CA96817E92518D14273D18CE001B
25 : 10B33F009E8D1D1808188C00A323F608082041CCF9
: 10B34F000008E301A3110404DD9804D398DD9A39B2
: 10B35F0086FF18A700EC01A30508080505939A2599
: 10B36F0007186C00939824F939380C398DD127FAC6
: 10B37F0018CE00A308088DD81809188C009E24F643
30 : 10B38F0008083C96A316481B489BA116481B489BD0
: 10B39F009F16CEB72B3AA6002BCF97A496A216488E
: 10B3AF001B489BA016481B489B9E16CEB72B3AA650
: 10B3BF00002BB697A5969E9B9F9BA29BA346CEC89C
: 10B3CF00BF2503CEBFE37900A6D6A4583AEC00DD23
35 : 10B3DF009E4FD6A405050505C3B80313A60103C3E5
: 10B3EF0008DC8F7F00A0D6A55454542712A6000D59
: 10B3FF0049270824FB7C00A00C20F5085A26EEA64E
: 10B40F0000D6A5C4074924037C00A05A2AF74FD6BB
: 10B41F00A0D39E8309612403C30961380D3918EB4A
40 : 10B42F0007C1312502C031D7A518EC00CE0031027B
: 10B43F0018E7098F18E708DBA5C1312502C03118BD
: 10B44F0008180839979F7F00A0B60BFE3DDDA1D6E7
: 10B45F009ED7A318CE0B808D1A7A00A326F918CE8B
: 10B46F000BB8969F27078DOB7A009F26F9DCA11842
45 : 10B47F00A1003918A600E6003DD3A0DDA0180818D8
: 10B48F00A600E6003DD3A1DDA124037C00A07D0032
: 10B49F00A0270E7A00A0832C2024067C00A0C32CAA
: 10B4AF00207D00A027087A00A0839610200883969D
: 10B4BF00102403C39610834B082403C34B08832522
50 : 10B4CF00842403C325848312C22403C312C28309B5
: 10B4DF00612403C30961DDA108180839CE0BC0DF51
: 10B4EF00A018CE0100CEB4FFD6A5583AEE006E00DC
: 10B4FF00B570B51CB58AB50FB553B558B50D4F39E5
: 10B50F00BDB6C7C6015C10250426FA2054148180ED

[0042]

[A table 17]

表1の17

5 :10B51F00204F969F909E4A26031483014A260314B8
:10B52F00830286812018969F909E4A2607148304D3
:10B53F008682200A128908F8868020208683128945
:10B54F00081A201DCEB6692003CEB694BDB6BF81B2
10 :10B55F002B250520A9CEB63E163AA60018A700182F
:10B56F0008BDB6C7812B25EDCEB528167EB4F9B52B
:10B57F0053B558B521B535B54BB58ABD86C7813072
:10B58F0027DFD69E27CF16BDB6C7813026031720DB
:10B59F00C497A686303DDBA68900DDA5D69E27077A
15 :10B5AF00BDB6C781302606DCA58D5B20B43696A5C7
:10B5BF00C6303DDDA496A6C6303D9BA524037C0076
:10B5CF00A4DDA54F33D3A524037C00A4DDA57D0006
:10B5DF00A4270C8386A025048D1D209FC386A08DD4
:10B5EF000220988D42186C0083271024F87A00A44B
20 :10B5FF002AF3C3271018088D2E186C008303E82434
:10B60F00F8C303E818088D1F186C0083006424F832
:10B61F00CB6418088D11186C00C00A24F9CB3A18A6
:10B62F000818E70018083936862F18A70032393066
:10B63F003132333435363738394142434445464742
25 :10B64F0048494A4B4C4D4E4F5051525354555657F3
:10B65F0058595A2D2E20242F2B25271B1C1D1E1FFA
:10B66F00212223260102030405060708090A0B0CF1
:10B67F000D0E0F101112131415161718191A282959
:10B68F00002A2C3A3F5E3B3C3D3E3F405B5C5D6198
30 :10B69F0062636465666768696A6B6C6D6E6F707103
:10B6AF0072737475767778797A7B7C7D7E35
:10B6BF007A009E2A084F38397A009E2BF912A1077B
:10B6CF0002200D7C00A1969E8104240486F897A188
:10B6DF003CDEA0A600387C00A1390800000400025F
35 :10B6EF000600000105000300000708000003000525
:10B6FF000600000102000400000701091F1A020CD6
:10B70F001117251216061B2C0F2B270B0D052921A0
:10B71F0024080420031328191D0A181EFFFFFFFF1A
:10B72F00FFFFFFFF000102030405060708090A0B0CBF
40 :10B73F000D0E0F101112131415FF16171819FFFF06
:10B74F001A1B1C1D1E1F20212223242526272829D2
:10B75F002A2B2C2D2E2F30FF31323334FFFF35366D
:10B76F0037FFFFFFFF38393A3B3C3D3E3F40414243B4
:10B77F004445464748FF494A4B4CFFFF4D4E4FFF4C
45 :10B78F00FFFF5051FFFFFFFF525354555657585963
:10B79F005A5B5CFF5D5E5F60FFFF616263FFFFFEF
:10B7AF006465FFFFFFFF66FFFFFFFF6768696AC2
:10B7BF006BFF6C6D6E6FFFFF707172FFFFF737425
:10B7CF00FFFFFFFF75FFFFFFFFFFFFFFFFFFFFFFFFF04
50 :10B7DF0076777879FFFF7A7B7CFFFFF7D7EFFFF17
:10B7EF00FFFF7FFFFFFFFFFFFFFFFFFFFFFFFFFFFDA
:10B7FF00FFFFFFFF2AA0000A280000000000000042
:10B80F000000000051550005555000000000000D9
:10B81F000000000028AAA80228AA8000000000004B
:10B82F00000000001045168114552800000000008C
:10B83F000000000008228940082295000000000047
:10B84F00000000000140000054000028000000002C
:10B85F000000000002AA80002AA00055500000003E
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[0043]

[A table 18]

表 1 の 1 8

5 :10B87F00000000000000A2A94008A2D0145528000023
:10B88F00000000000000041148004512A082295000096
:10B89F00000000000000020884000209104110A4000A1
:10B8AF00000000000000015000001500002A00015006C
:10B8BF000000000000000AA80000AA800155000AA895
:10B8CF0000000000000005168000552800A2D0055288
:10B8DF0000000000000002894000229500512A0229B1
:10B8EF0005000000000001048000110A002091811017
:10B8FF000A40000000000080400000810010084008F4
10 :10B90F0012000000000005400000500000A800050E3
:10B91F00015000000000029400002D0000528002D32
:10B92F0000A5000000000148000012A0002950012FB
:10B93F000A052A0000000084000009100010A400939
:10B94F0018214800000004000000800000810000DA
15 :10B95F008410240000000280000028000050000224
:10B96F00800A01400000014000001500002A00017C
:10B97F00500540A80000008000000A000011800060
:10B98F00A4023052000000400000010000084000F7
:10B99F00120108090000000A0000000000000006A
20 :10B9AF000000000005000000554000000000000DF
:10B9BF000000000000AA0000A2AA0000000000005A
:10B9CF000000000005155000515550000000000053
:10B9DF000000000028AA280208A2D00000000000E2
:10B9EF000000000001045128104512A0000000000E1
25 :10B9FF00000000000A800000A28000054000000000A
:10BA0F00000000000554000155550002AA00000000E
:10BA1F0000000000002AAA000A2AAA8015550000007B
:10BA2F000000000001145500515552808A2D0000050
:10BA3F0000000000008A2290208A2D504512A000024
30 :10BA4F000000000000041108104512A002091800065
:10BA5F0000000000002A00000AAA0005550002A001C
:10BA6F0000000000015500005555002AAA8015500E
:10BA7F00000000000000AA280028AAD01555280A2D7A
:10BA8F000000000000045128014552A08A2D50512A7
35 :10BA9F00A000000000022090008229504512A420943
:10BAAF00180000000001008004110A00209181009D
:10BABF0084000000000A000002AA800145002AA8A5
:10BACF0000A000000005500001452800AAD0145224
:10BADF00805A000000002290000A2D500452A0A2D35
40 :10BAEF00502540000001108000412A002295841249
:10BAFF00A41230000000080000209100010A420942
:10BB0F001A01080000002800000A5000052800A5AF
:10BB1F0000A502800000128000052A000255005285
:10BB2F00A04AA1500000090000021500012A40217F
45 :10BB3F005825488C0000008000010A000011801079
:10BB4F00A40234420000010000005500002200054D
:10BB5F00500442A80000008000002200001580025F
:10BB6F002402B1120000000000011000002400189
:10BB7F001A00488D0000001500000028000000008A
50 :10BB8F00000000000A800000AA800005550000000A7
:10BB9F000000000005540000555400028AA80000015
:10BBAF000000000002A8A000228AA0014552800006D
:10BBBF0000000000011445001144520082295000098
:10BBCF000000000000882210008221404110A40001E

[0044]

[A table 19]

表1の19

5 :10BBDF0000000000050000015540000AAA00015003E
:10BBEF00000000000AA80000AAAA0005555000AA86C
:10BBFF0000000000005154000555450028AAD00552F9
:10BC0F00800000000288A200228AA5014552A0229F1
:10BC1F0050000000010441201144522082295811093
:10BC2F00A40000000802010008221404110A4008B1
:10BC3F001200000005400000514000AAAA801450D5
:10BC4F0001500000028A00002AAA005145280AADBF
:10BC5F0000A500000144500011452028AAD5045228
10 :10BC6F00A052A0000082210008A25410452A4229A8
:10BC7F0058214800004010000041220822958010F2
:10BC8F00A410240000140000014500028A50145231
:10BC9F00814A0140000A2000008A5001452A08A568
:10BCAF0050A540A80004120000452200825584527E
15 :10BCBF00A442B0520002010000021400412A4021A8
:10BCCF005A21480900005000000420000A55004284
:10BCDF00214AA11000002100000254000422402537
:10BCEF00588448AC000010000000220002158002AA
:10BCFF002442B4120000020000002200004480021F
20 :10BD0F0024089112000001000000040000224000EE
:10BD1F004A0448250000002A0000005400002A00B1
:10BD2F00000000000500000155000002AA000155020
:10BD3F00000000000A280000A2A80001545000A2D8D
:10BD4F000000000005114000511440008A250051214
25 :10BD5F00A00000002088200208824004412202092E
:10BD6F001800000010040201004020002010810084
:10BD7F0084000000A000002AA800005140002AA85B
:10BD8F0000A00000550000145140002AAA001452D0
:10BD9F00805A00002288000A2A8A001145200A2DA5
30 :10BDAF00502540001104400411442008A2540412ED
:10BDBF00A4123000008020020882440041220209B0
:10BDCF001A01080002800000A2800051450028A53A
:10BDDF0000A5028001140000514400228A50145221
:10BDEF00A04AA15000882000208A40114522082532
35 :10BDFF005825488C000402001044200082548412FD
:10BE0F00A402344200080000028A0001042028A581
:10BE1F00508442A800044000010420008A541042BC
:10BE2F00244AB11200002000008244000422082599
:10BE3F005A04488D000020000008400004220084AE
40 :10BE4F0048844A240000020000042000004480427D
:10BE5F0024089512000000000000440000000004B8
:10BE6F004A00022500000014000000A80000140082
:10BE7F0001500000A000000AA000005140000AA0DD
45 :10BE8F0000A5000045000004510000288A0004525C
:10BE9F000052A00022080002208800104420022136
:10BEAF004021480001004000100400080204001067
:10BEBF002010240040000014500000A280001450F5
:10BECF00014A0140A2000008A2800051440008A5C9
:10BEDF0000A540A841100004510400208A400452DC
50 :10BEEF002042B0522008000020884010442000213A
:10BEFF004821480905000000410000A28A001042B5
:10BF0F00014AA1100208000022880041042008A560
:10BF1F00408448AC01004000010400208A440042E4
:10BF2F002042B41200100000010400020840104229

[0045]

[A table 20]

表 1 の 2 0

5 :10BF3F00210891120008000000084001042000842D
:10BF4F0048844825000040000000000084400001D
:10BF5F0001089400000000028000000500000280095
:10BF6F0000A0028040000014400000228000144016
:10BF7F0000A01508200000822000011040008242A
:10BF8F000024408C40100004010000008040040297
:10BF9F000002104280000028A0000041000028A0ED
:10BFAF00008402A8440000104100002288001042C3
10 :10BFBF00004A81120200000822080000000000061
:10BFCF0000000000000000000000000000000062
:10BFDF0000000000004B004B904C804D904EA04F84E
:10BFEF0004FF05100525053C054F055D0569057D19
:10BFFF00059505AC05BD05C705D405E805FD060E7D
15 :10C00F000617062306340643064D064F06560663EB
:10C01F00067306830692069C06AF06C706E006F86F
:10C02F000709071B0735075307710789079807ACDF
:10C03F0007C707E507FE080F0823083D08550866E0
:10C04F00087708880896089B08A908BC08D108E556
:10C05F0008F509060920093E095C09760987099E3A
20 :10C06F0009BC09DD09FB0A100A280A460A640A7B83
:10C07F000A900AA80ABB0ACA0AD80AE10AF20B08F0
:10C08F000B1F0B320B3E0B520B6D0B8B0BA60BBA10
:10C09F000BD20BF00C0E0C260C3D0C560C6D0C7EBF
:10C0AF000C8F0C990CA30CB50CCA0CDD0CE90CFC15
25 :10C0BF000D160D300D440D590D710D860D970DA8F0
:10C0CF000DB10DBB0DCB0DDC0DE80DF90E0C04B150
:10C0DF0051400005540000000000000000000067
:10C0EF002AAA800A2AA0000000000000000000019
:10C0FF00114554051555000000000000000000018
30 :10C10F0008A2A94208A2D000000000000000000011
:10C11F000041148104512A000000000000000000BB
:10C12F0002A0000028000054000000000000000E2
:10C13F00015500005550002AA0000000000000002B
:10C14F0000AAA80028AA80155500000000000000D2
35 :10C15F000045168014552808A2D00000000000000EA
:10C16F000022894008229504512A00000000000097
:10C17F000001048004110A002091800000000000DB
:10C18F00000A800002A0000150002A0000000000F9
:10C19F000005540001550000AA8015500000000052
40 :10C1AF000002A94000A2D00055280A2D0000000006F
:10C1BF000001148000512A0022950512A0000000F2
:10C1CF000000884000209100110A42091800000069
:10C1DF00000004000010080000810100840000002E
:10C1EF0000002800000A8000050000A800A0000041
45 :10C1FF00000016800005280002D00052805A00006F
:10C20F000000094000029500012A00295025400036
:10C21F000000048000010A0000918010A412300079
:10C22F0000000040000081000008400812010800D3
:10C23F0000000140000050000028000500050280AA
50 :10C24F000000008000002A0000150002A002A1508B
:10C25F000000004000001100000A40011801488C46
:10C26F0000000000000008000001000084002442CC
:10C27F00000000050000000000000000000000AA
:10C28F00A800000A2800000000000000000000C5

[0046]

[A table 21]

表 1 の 2 1

5 :10C29F0055400005555000000000000000000000050
:10C2AF002AAA000228AA800000000000000000000057
:10C2BF00114550011455280000000000000000000037
:10C2CF0008A2290008229500000000000000000000CD
:10C2DF0050000015540000280000000000000000006E
:10C2EF00AAA0000AAA000555000000000000000000FC
:10C2FF005155000555550028AA800000000000000088
:10C30F0028AA280228AAD014552800000000000000EF
:10C31F001045128114552A082295000000C000000D4
10 :10C32F000822090008229504110A4000000000000CAD
:10C33F0005400000555000AAA00015000000000000A5
:10C34F0002AA00002AAA805555000AA8000000000082
:10C35F000145500015552828AAD005528000000002D
:10C36F0000A2290008A2D514552A022950000000066
15 :10C37F000041108004512A0822958110A400000006A
:10C38F000020080000209104110A40081200000004C
:10C39F000015000001450002AA80145001500000052
:10C3AF00000A280000AAD00145280AAD00A50000008
:10C3BF000005128000452A00A2D50452A052A00009
20 :10C3CF000002090000229500412A42295821480005
:10C3DF000001008000010A0020918010A4102400A9
:10C3EF0000005000000528000A500052814A014009
:10C3FF000000290000025500052AC02550A540A87D
:10C40F000000108000012A0002158012A442B052D1
25 :10C41F000000080000001100010A40011A2148091C
:10C42F00000002800000220000550002200AA11027
:10C43F00000001000000150000224001580448AC24
:10C44F00000000800000020000118000240234125E
:10C45F000000000A0000005400000000000000006F
30 :10C46F00500000155400002AA00000000000000003A
:10C47F00AA80000A2AA000155500000000000000045
:10C48F005154000515450008A2D000000000000001F
:10C49F00288A200208A25004512A000000000000040
:10C4AF00104412010441220020918000000000007E
35 :10C4BF00A800002AA800005550002A0C00000000024
:10C4CF00554000155540002AAA80155000000000065
:10C4DF002A8A000A2AAA001555280A2D00000000F2
:10C4EF001144500515452008A2D50512A00000000E3
:10C4FF000882210208A25404512A4209180000000A0
40 :10C50F0000401001044122002091810084000000AE
:10C51F0002800000AAA0005145002AA800A00000038
:10C52F00015400005145002AAD01452805A00002D
:10C53F00008A200028AA5011452A0A2D50254000B4
:10C54F000044120010452208A2D58412A412300014
45 :10C55F000002010008221400412A42091A010800B2
:10C56F00000A0000028A0001452828A500A50280C4
:10C57F0000045000014520008A551452A04AA150D2
:10C58F000002210000825400452A48255825488C76
:10C59F00000010000041220002158412A402344250
50 :10C5AF0000002000000A5000042200A5508442A879
:10C5BF00000012000004220002558042244AB112EA
:10C5CF000000010000021400002240215A04488DBF
:10C5DF0000000100000044000022400448044A24E7
:10C5EF00000000000000022000004800224009512C9

[0047]

[A table 22]

表 1 の 2 2

5 :10C5FF0000000015000000A800001500000000005A
:10C60F00A0000000A800005540000A80000000082
:10C61F005500000551400028AA0005528000000077
:10C62F0022880002288A00144520022950000000A9
:10C63F00110440011044200822140110A40000002E
:10C64F000080200008020404010200081200000000C
:10C65F0050000014500000AA00014500150000018
:10C66F00A280000AA80005145000AAD00A5000073
10 :10C67F005114000451440028AA500452A052A000A3
:10C68F0020882002288A401045220229582148007C
:10C69F00100402001044200822148010A41024005B
:10C6AF0005000000514000A28A001452B14A014047
:10C6BF0002880000228A0051452008A550A540ABF5
:10C6CF0001044000114420208A540452A442B05265
15 :10C6DF000080200000824410452200215A21480981
:10C6EF0000140000010400028A501042214AA110DB
:10C6FF0000082000008A4001042208A5588448AC95
:10C70F000004020000042000825480422442B4122C
:10C71F000000400000042000084400422508911248
20 :10C72F000000200000004400042200044A84482531
:10C73F0000000200000000000004480000008940088
:10C74F000000002A0000005000002A0000A0000096
:10C75F00400000145000002A80001450005A0000BE
:10C76F00A200000A2280001144000A250025400083
25 :10C77F0041100004110400088240041220123000FE
:10C78F00200800020080400040200201080108003C
:10C79F00A0000028A0000051400028A0000A50280A2
:10C7AF0045000014510000228A001452004AA15083
:10C7BF002208000822880011442008254025488CB3
30 :10C7CF00010040041104000082440412200234428C
:10C7DF0002000000A2800041040028A5008442A8A6
:10C7EF0001100000410400228A401042204AB11279
:10C7FF000008000020884001042008254804488DC7
:10C80F0000080000020800010420208440844A240C
35 :10C81F000000400001040000084410422008951257
:10C82F000000000000084000000008448000225BE
:10C83F0000000014000000AG00001400014001409F
:10C84F00800000008A0000051000008A000A400A86C
:10C85F00440000044100002088000442004280523E
40 :10C86F0002000000200800100400002040204009B2
:10C87F0040000010400000A280001040014A01104B
:10C88F0082000008A2000041040008A4008440ACOC
:10C89F0040100000410000208840004200429012EA
:10C8AF00040000004100008000000000000000B4
45 :10C8BF00FFFFF00080017002800390046004E005EF9
:10C8CF0000730089009D00AA00B600CA00E200F8BC
:10C8DF0001090111011D0131014601570161016D6E
:10C8EF00017D018C01940196019D01AA01B901C935
:10C8FF0001D701E101F5020D0227023F0251026348
50 :10C90F00027D029B02B902D102E002F40310032E52
:10C91F0003480359036D0387039F03B003C003D27A
:10C92F0003DF03E403F104040419042D043D044F51
:10C93F000469048704A504BF04CF04E50503052398
:10C94F0005410556056E058C05AA05C005D505EDF3

[0048]

[A table 23]

表 1 の 2 3

```

5 :10C95F0006010610061D06260637064D06630676E7
  :10C96F000681069406B006CE06EA06FE07160734C1
  :10C97F000752076A0780079A07B007C107D207DA7D
  :10C98F0007E407F5080A081D0829083D085708712C
10 :10C99F000885089A08B208C708D808E908F308FDFD
  :0CC9AF00090D091E09290938094C095C12
  :10C9BB003936373CCE0240CCFFFEED0008088C091F
  :10C9CB008225F7FD0236FD0234FD023EFD0230C624
  :10C9DB0054FD0232CC0000FD023AFD023CB7022DA1
15 :10C9EB0038333239128C026FDE92EC03A30905DD6A
  :10C9FB009FEC0FA311939F255EBDCFE3EC03A30721
  :10CA0B008D582453EC05A3098D50244BEC0BA30F2D
  :10CA1B008D482443EC01A3058D4093982449EC07E2
  :10CA2B00A30B8D3693989398242DEC09A30D8D2A87
20 :10CA3B00939893982421BDCB8513B60117FE022E34
  :10CA4B0086FFB7022EDCB593AF2509830032250490
  :10CA5B008FBDCC53BDCB337E90A6DD9F0505050561
  :10CA6B00D39F939A939839939824ECEC07A30B8D4F
  :10CA7B00E924E4EC09A30D8DE124DCFC022EFF027A
25 :10CA8B002E4D2ED3158D0120C8128C0270DE92EC2B
  :10CA9B0009A30F05DD9FEC01A303939F255FBDCF7A
  :10CAAB00E3EC03A307BDCA652453EC09A30DBDCA70
  :10CABB0065244AEC0BA30FBDC652441EC0DA311F1
  :10CACB00BDCA659398253993982432EC05A309BD0B
30 :10CADB00CA652429EC07A30BBDC652420BDCBE98D
  :10CAEB0013B60117FE022E86FFB7022EDCB593AFED
  :10CAFB00250983003225048FBDCCB58D2B7E90C4C8
  :10CB0B00EC05A309BDCA659398939824F0EC07A391
  :10CB1B000BBDC659398939824E3FC022EFF022E5B
35 :10CB2B004D2BDA158D0120D0138D0135B6023385CF
  :10CB3B0001262EFC023C1AB3023E2418CC0000B393
  :10CB4B0002384756F3023404040404F3023E1AB3CA
  :10CB5B00023A240D8601BA0233B702339E968672CF
  :10CB6B0039B6022D80202511B7022D9E96FC02347A
40 :10CB7B00B3023C0404045C534F39BDCFABBD0CFDE6
  :10CB8B00255BDD0E82B5618CE00FFBDD05897B70C
  :10CB9B00BDCF9CD7B8DCAFC300108F9CB52426BD8E
  :10CBAB00CFD32407BDD00025F2202FBDD0E82A100B
  :10CBBB004C260A96A881072604DC9C270ACCOFFF7B
45 :10CBCB00BDD07220D02613181E00300EBDCF9CD1C5
  :10CBDB00B8260A867A18A70218087ECD1639BDCF5B
  :10CBEB00ABBDCFCD2561BDD0942B5C18CE00FFBD66
  :10CBFB00D05897B7BDCF9CD7B8DCAFC300108F9C74
  :10CC0B00B52429BDCF9CD32407BDD00025F22032BDDA
50 :10CC1B00D0942A134C260D96A881062607DC9C83FC
  :10CC2B000480270ACCOFFFBD07220CD2613181E0F
  :10CC3B0000300EBDCF9CD1B8260D867A18A70218EE
  :10CC4B0008148D027ECD6339C5022762BDCF22584
  :10CC5B0058BDD0E82B5318CE00FFBDD05897B7BDA9
  :10CC6B00CF9CD7B8DCAF8300108FBDCF9CD32407BDCB
  :10CC7B00D02025F62030BDD0E82A134C260D96A8D2
  :10CC8B0081062607DC9C8304802708CCOFFBDD0D0
  :10CC9B007220D1181E00300EBDCF9CD1B8260A864B
  :10CCAB007A18A70218087ECD6339C502269EBDCF20

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[0049]

[A table 24]

表1の24

5 :10CCBB00C22557BDD0942B5218CE00FFBDD058972C
:10CCCB00B7BDCF9CD7B8DCAF8300108FBDCFD324BB
:10CCDB0007BDD02D25F6202DBDD0942A104C260A49
:10CCEB0096A881072604DC9C2708CC0FFFBD072C9
:10CCFB0020D4181E00300EBDCF9CD188260C867ADE
:10CD0B0018A7021808148D02200139BDCF8718DF30
:10CD1B009EBDCF7A2B4118CE00FFBDCDBE8D772B9C
:10CD2B00367D02322B318D71FB02328900FB0232D0
:10CD3B0089008F96A0840C97A8BDCDE17A00A3271C
10 :10CD4B00080909189C9E25F139189C9E24098D63AE
:10CD5B0012A00C037ECE9939BDCF8718DF9EBDCF85
:10CD6B007A2BF418CE00FF8D4A8DE92BEA7D023227
:10CD7B002BE58D258F96A0840C97A88D597A00A34F
:10CD8B002709C6023A189C9E25F139189C9E24C788
15 :10CD9B008D2112A00CC17ECEED8F17581B13A00C4A
:10CDAB00064C13A008014CF602325CD7A3583DC3C6
:10CDBB0002403918A60218A800843018E60218E8B9
:10CDCB0004C4301B97A218EC021808180858580412
:10CDDB0004840FDDA0398DDB12A00CF9840C90A814
20 :10CDEB00272D2B14850427148FC30002FB023289D5
:10CDFB0000FB023289002012850427EC8F8300028E
:10CE0B00F002328200F0023282008F9BA897A8DCDE
:10CE1B00AG0584078C02402560BC0236245B6D00A4
:10CE2B002B33E101260CA800850726048D2E202725
25 :10CE3B00A800DD9C8D0C13A2FF01391A939C2720AF
:10CE4B00DC9C1F00703FA6008010A7008570262970
:10CE5B00CCFFFF201E8D2313A2FF01391E0070197A
:10CE6B007C022DA6008B10A7008560260C148D016B
:10CE7B00CC0001F3023CFD023C397C022D7C023BD1
30 :10CE8B0026037C023AED00148D017C022D398403BC
:10CE9B00CE001E0213A00C2A13A00854B60233F1C5
:10CEAB00023227128004850C26127D02322B03BD21
:10CEBB00C9BCF70232398B04850C2052B70233867A
:10CECB00FF39B60233F102302712804085C026ECC1
35 :10CEDB007D02302B03BDC9BCF70230398B4085C0B6
:10CEEB00202C8403CE001E0213A00CB013A008D27A
:10CEFB00B60233F1023127128010853026BE7D0237
:10CF0B00312B03BDC9BCF70231398B108530275C3F
:10CF1B00B7023381FC2555148D017F02388601F64B
40 :10CF2B00023148790238C00324F8B70239CB04FB2D
:10CF3B000230FB0230FB0230B602324C3DFD0234B4
:10CF4B0005C30240FD0236FC0234B30238C30002B3
:10CF5B00FD023E3CCE0240CC00001E008003C3000D
:10CF6B00010808BC023625F238FD023A8601391257
45 :10CF7B009F01F9DC9E830106547ECEA7CC3F3FCDA8
:10CF8B00A300260C18091809188C010122F1313164
:10CF9B003918EC00585804048403CE001E028F3954
:10CFAB00FC022E2A05CC200020071A939224028A19
:10CFBB0010DDB5158D01398A108F8D1C8F830010F4
50 :10CFCB002005DCAFC300108FEC01A3111A93B12520
:10CFDB00061A93B325060D39EC01A311DD98DFAFCB
:10CFEB0004D398DD9A04040404D398DDB3DC9805CC
:10CFFB0093B3DDB139CC3F3F18ED0218ED04CC00F3
:10D00B00008D09251C93981A93B12415180818083C

[0050]

[A table 25]

表 1 の 2 5

5 :10D01B00E301A3058FC300048F1A93B125F21A9372
:10D02B00B339CC3F3F18ED0218ED04CC00008D094D
:10D03B0025EF93981A93B124E8180818088F8300EA
:10D04B00048FE311A3151A93B125F220D1050554D2
:10D05B0054812024028B40C1202402CB4018ED02C6
:10D06B00C602183A8430398DE427128120270581B6
:10D07B0030261339D6B7260E7A00B82009D6B7C199
:10D08B002026037C00B897B739EC01A3058D30D768
:10D09B00A1EC03A3078D28D7A2EC05A3098D20D7FC
10 :10D0AB00A3EC07A30B8D18D7A4EC09A30D8D10D7F8
:10D0BB00A5EC0BA30F8D08D7A6EC0DA3112052DD09
:10D0CB009F05050505D39F939A250D149EFF7C00A4
:10D0DB009E939824F9D69E39313186FE39EC0DA3F7
:10D0EB00118DDCD7A1EC0BA30F8DD4D7A2EC09A328
15 :10D0FB000D8DCCD7A3EC07A30B8DC4D7A4EC05A344
:10D10B00098DBCD7A5ECD3A3078DB4D7A6EC01A35F
:10D11B00058DADC7A7DBA1DBA3DBA5C10926BB968D
:10D12B00A2D6A40505059BA3DBA5585805DBA6DDF8
:10D13B009CC609DBA1D0A2DBA5D0A6C00924FCCBE1
20 :10D14B0009D7A8270BC1032707C106270386FF3979
:10D15B00CED1AA3AEE00DFADCC0200DDA9CC0000A7
:10D16B00D3A91A8303A02210DDAB05D3AD8FEC003E
:10D17B00939C271ADCAB250293A97400A97600AA0D
:10D18B0024DEDDAB26C7DEADECO0939C26BFDCAB0B
25 :10D19B0013A80F0AC3040012A80303C3040039D158
:10D1AB00B200D8F400E036000200030004000B00CC
:10D1BB000C000D00130014001C00240025002D0092
:10D1CB004A004B004C005300540055005B005C00C0
:10D1DB0064009200930094009B009C009D00A400AF
30 :10D1EB00A500DB00DC00E400E5012401680242023B
:10D1FB00430244024A024B024C02530254025B02AA
:10D20B005C025D02640265026D028A028B028C0273
:10D21B009202930294029B029C029D02A402A5021D
:10D22B00D202D302D402DB02DC02E402E5031B03CD
35 :10D23B001C0324032D048104820483048A048B048D
:10D24B008C049204930494049B049C04A404AD04E6
:10D25B00C904CA04CB04D204D304D404DB04DC0415
:10D26B00E404ED05120513051B051C0524055B06DF
:10D27B00C106C206C306C906CA06CB06D206D3062A
40 :10D28B00D406DB06DC06E406E50709070A070B07ED
:10D29B00120713071B071C0724072D0753076409E5
:10D2AB0000090109020909090A090B0912091309E5
:10D2BB001B091C092409490952095B0B400B420B42
:10D2CB004A0B530B64100210031004100A100B10BE
45 :10D2DB000C101310141015101B101C1024104A10D6
:10D2EB004B104C105210531054105B105C10641008
:10D2FB006D109210931094109B109C10A410AD10F5
:10D30B00DB10DC10E41124120112021203120A12B8
:10D31B000B120C121212131214121B121C121D12CE
50 :10D32B002412251241124212431249124A124B1275
:10D33B004C125212531254125A125B125C125D129F
:10D34B00631264126C1289128A128B12911292124E
:10D35B00931294129A129B129C12A312A412AC1247
:10D36B00D212D312DA12DB12DC12E312E412EC1338

[0051]

[A table 26]

表 1 の 2 6

5 :10D37B001B13231324132C14411442144314491468
:10D38B004A144B145214531454145B145C14641449
:10D39B006D1481148214831489148A148B149114C0
:10D3AB009214931494149A149B149C14A314A41401
:10D3BB00A514AD14C914CA14CB14D114D214D3149C
:10D3CB00DA14DB14DC14E314E414ED151215131545
:10D3DB001A151B15231524152C156316801681168B
:10D3EB00821689168A168B16921693169B169C1606
:10D3FB00A416AD16C016C116C216C816C916CA1683
10 :10D40B00CB16D116D216D316DA16DB16DC16E316AC
:10D41B00E416EC1709170A171117121713171A1717
:10D42B001B17231724172C175A176318C018C1186A
:10D43B00C218C918CA18D218D318DB18E419001966
:10D44B0001190219081909190A19111912191319B5
15 :10D45B001A191B1923192419491951195A19631B24
:10D46B00011B0A1B1B1B411B491B511B5A1B632016
:10D47B000120022003200A200B201220132014204D
:10D48B001B201C2024202D2049204A204B205220D9
:10D49B00532054205B205C2064206D20922093202D
20 :10D4AB009B209C20A420DB20E422012202220322C9
:10D4BB0009220A220B221222132214221B221C22C3
:10D4CB002422252241224222432249224A224B2254
:10D4DB0051225222532254225A225B225C22632273
:10D4EB0064226C2289228A228B22912292229322FD
25 :10D4FB009A229B229C22A322A422AC22D222D322A8
:10D50B00DA22DB22E322E4231B232324002401243D
:10D51B00022409240A240B24122413241B241C2464
:10D52B002424402441244224482449244A244B24C3
:10D53B005124522453245A245B245C2463246424F2
30 :10D54B006D24802481248224882489248A248B249A
:10D55B00902491249224932499249A249B249C24FO
:10D56B00A224A324A424AB24AD24C924CA24D124EB
:10D57B00D224D324D924DA24DB24E224E324E424A4
:10D58B00EC2512251A251B2522252326402641266C
35 :10D59B00422649264A26522653265B266426802697
:10D5AB0081268226882689268A26912692269326EC
:10D5BB009A269B26A326A426AC26C026C126C226C5
:10D5CB00C826C926CA26D026D126D226D326D926A6
:10D5DB00DA26DB26E226E326E426EC2709270A27B0
40 :10D5EB001127122719271A271B27222723275227F0
:10D5FB0062288028812889288A2892289B28C0287D
:10D60B00C128C828C928CA28D128D228DA28DB285B
:10D61B00E32900290129082909290A291029112997
:10D62B00122919291A291B29222923292B29512986
45 :10D63B005929622AC12AD22B012B092B122B402BE1
:10D64B00482B502B522B5A30013009300A301230F4
:10D65B00133014301B301C302430253049304A3005
:10D66B004B30523053305B305C3064306D30923025
:10D67B0093309B30A430DB3200320132023209325C
50 :10D68B000A32123213321B321C32243240324132F4
:10D69B004232483249324A324B3251325232533291
:10D6AB005A325B325C32633264326D3289328A3287
:10D6BB009132923293329A329B32A332A432D232CB
:10D6CB00DA32DB32E33400340134023409340A3405

[0052]

[A table 27]

表 1 の 2 7

5 :10D6DB00123413341B342434403441344834493429
:10D6EB004A345134523453345A345B3463346434D3
:10D6FB006C3480348134883489348A349034913456
:10D70B009234933499349A349B34A234A334A43492
:10D71B00AC34C934CA34D134D234D934DA34DB34EE
:10D72B00E234E33512351A35223600360136093626
:10D73B000A3612361B3640364136483649364A369B
:10D74B00513652365A365B366336803681368836DA
:10D75B0089368A3690369136923699369A369B367A
10 :10D76B00A236A336AB36C036C136C836C936CA3632
:10D77B00D036D136D236D836D936DA36DB36E13634
:10D78B00E236E336EA3709371137123719371A37CA
:10D79B00213722372A3840384138493852388038B7
:10D7AB00813888388938913892389A38C038C138DE
15 :10D7BB00C838C938D038D138D238D938DA38E23904
:10D7CB000039013908390939103911391239183929
:10D7DB0019391A39213922392A3951396139A893A99
:10D7EB00C83AD13B083B103B193B483B503B583B9D
:10D7FB006140004009400A4012401B402440494010
20 :10D80B0052405B40644092409B42004209420A42B4
:10D81B00124213421B422442404241424842494277
:10D82B004A42514252425A425B42634264426C4208
:10D83B0089428A42914292429A429B42A342D242ED
:10D84B00DA440044094412441B44404448444944CC
25 :10D85B004A44514452445A445B4463448044884490
:10D86B0089448A4490449144924499449A449B44F9
:10D87B00A244A344C944D144D244D944DA44E24635
:10D88B0000460946124640464846494651465246CE
:10D89B005A4680468146884689469046914692462E
30 :10D8AB0099469A46A246C046C146C846C946D04686
:10D8BB00D146D246D846D946DA46E146E247094731
:10D8CB0011471947214800480948404848484948EA
:10D8DB005148804888488948904891489948C048A1
:10D8EB00C848C948D048D148D800010002000900F7
35 :10D8FB000A000B001200130014001B001C00240074
:10D90B0025002D0049004A004B00510052005300E6
:10D91B005A005B005C00630064006C006D007500D6
:10D92B0091009200930099009A009B00A200A30023
:10D93B00A400AB00AC00B400B500BD00D900DA0008
40 :10D94B00DB00E100E200E300EA00EB00EC00F30097
:10D95B00F400FC00FD012101220123012A012B010E
:10D96B00330134013C016A016B0173017C024002FB
:10D97B004102420249024A024B02520253025B022B
:10D98B005C0264026D02880289028A029102920291
45 :10D99B0093029A029B02A302A402AC02B502D0022C
:10D9AB00D102D202D902DA02DB02E202E302EB027B
:10D9BB00EC02F402FD03180319031A0321032203DB
:10D9CB0023032A032B03330334033C036103620356
:10D9DB006A036B0373037C03AA03B30480048104FF
50 :10D9EB00820489048A04920493049B04A404C8044B
:10D9FB00C904CA04D104D204DA04DB04E304EC0541
:10DA0B0010051105120519051A05220523052B050D
:10DA1B003405580559055A05610562056A056B05FC
:10DA2B0073057C05A105A205AA05B305EA06C00688

[0053]

[A table 28]

表 1 の 2 8

5 :10DA3B00C106C906CA06D206DB0708070907110784
:10DA4B0012071A0723075007510759075A0762078E
:10DA5B006B0798079907A107A207AA07B307E10766
:10DA6B00EA0900090109090912094809490951097B
:10DA7B005A09900991099909A209D809D909E1090B
:10DA8B00EA0B400B490B880B910BD00BD9100010F4
:10DA9B000110021009100A100B10121013101B109A
:10DAAB001C1024102D10481049104A105110521000
:10DABB0053105A105B10631064106C10751090109B
10 :10DACB009110921099109A109B10A210A310AB10EA
:10DADB00AC10B410BD10D810D910DA10E110E21050
:10DAEB00E310EA10EB10F310F410FC1121112211CA
:10DAFB002A112B1133113C116A11731200120112EE
:10DB0B00051209120A120E121212131217121B12FD
15 :10DB1B002412401241124212481249124A12511257
:10DB2B00521253125A125B12631264126C12881245
:10DB3B0089128A1290129112921299129A129B12B6
:10DB4B00A212A312AB12AC12B412D012D112D21277
:10DB5B00D812D912DA12E112E212E312EA12EB1224
20 :10DB6B00F312F412FC13181319131A1320132113A5
:10DB7B00221329132A132B13321333133B133C1386
:10DB8B006113621369136A13721373137B13AA1451
:10DB9B0040144114451449144A144E14521457148A
:10DBAB005B1480148114881489148A1491149214B0
25 :10DBBB009A149B14A314C814C914D014D114D214DE
:10DBCB00D914DA14E214E314EB151015111518150A
:10DBDB0019151A15211522152A152B15331558153C
:10DBEB00591560156115621569156A15721573154E
:10DBFB007B15A115A915AA15B216801681168516C7
30 :10DC0B0089168E169216C016C116C816C916D116CD
:10DC1B00D216DA17081709171017111719171A1731
:10DC2B0022175017511758175917611762176A1790
:10DC3B0098179917A017A117A917AA17B217E117C9
:10DC4B00E918C018C518C9190019081909191119AB
35 :10DC5B004819501951195919901998199919A1194D
:10DC6B00D819E019E119E91B001B401B481B881B45
:10DC7B00901BD01BD82000200120022009200A2055
:10DC8B00122013201B202420482049204A205120F9
:10DC9B0052205A205B2063206C20902091209220F0
40 :10DCAB0099209A20A220A320AB20B420D820D920E1
:10DCBB00DA20E120E220EA20EB20F320FC212121D5
:10DCCB0022212A2133216A22002201220522092244
:10DCDB000A220E22122217221B2240224122482204
:10DCEB0049224A22512252225A225B226322882243
45 :10DCFB00892290229122922299229A22A222A32255
:10DD0B00AB22D022D122D822D922DA22E122E2225E
:10DD1B00EA22EB22F3231823192320232123222386
:10DD2B0029232A23322333233B23612369236A23A9
:10DD3B00722400240424052409240D240E24122407
50 :10DD4B0016241F24402441244524482449244D24CF
:10DD5B004E245124522456245A248024812488246E
:10DD6B00892490249124922499249A24A224C824AF
:10DD7B00C924D024D124D824D924DA24E124E224C0
:10DD8B00EA251025112518251925202521252225C1

[0054]
[A table 29]

表1の29

5 :10DD9B0029252A25322558255925602561256825F1
:10DDAB0069256A25712572257A25A125A926402684
:10DDBB004426452649264D26562680268526882626
:10DDCB0089268D269126C026C826C926D026D1267F
:10DDDB00D92708271027112718271927212750275C
:10DDEB00582759276027612769279827A027A1273C
:10DDFB00A827A927B128802884288D28C028C829BE
:10DE0B00002908291029482950295829902998298F
:10DE1B00A029D829E029E82AC43000300130093084
10 :10DE2B000A3012301B3048304930513052305A30A2
:10DE3B0063309030913099309A30A230AB30D8307B
:10DE4B00D930E130E230EA30F33121312A3200327D
:10DE5B000132053209320E3212324032413248322F
:10DE6B004932513252325A3288328932903291329F
15 :10DE7B0099329A32A232D032D132D832D932E132FF
:10DE8B00E232EA33183319332033213329332A335F
:10DE9B0032336133693400340434053409340D34BE
:10DEAB00163440344534483449344D34513480347D
:10DEBB0088348934903491349934C834D034D13483
20 :10DECB00D834D934E135103518351935203521358D
:10DEDB002935583560356135683569357136033606
:10DEEB0004360C360D3615361E364036443648365B
:10DEFB004C364D365536803688369036C036C83659
:10DF0B00D036D837083710371837203750375837AF
25 :10DF1B00603768379837A037A838433844384C38BF
:10DF2B00553884388C3A833A8C3CC34000400940C6
:10DF3B0012404840494051405A40904091409940CE
:10DF4B00A240D840D940E140EA412142004205427B
:10DF5B0009424042484249425142884290429142D2
30 :10DF6B009942D042D842D942E1431843204321433E
:10DF7B002944004404440D444044484480448844AC
:10DF8B009044C844D044D8451045184520455845C1
:10DF9B0060456846034604460C46154644464C48C5
:10DFAB00024803480B480C4814481D4843484B484B
35 :10DFBB004C48544A424A434A4B4A544A834A8B4C34
:10DFCB00824C8B4EC2504850515090509950D85063
:10DFDB00E152485288529052D052D8531853205481
:10DFEB00045603560C58025803580B5814584358F0
:10DFFB004B5A015A025A0A5A0B5A135A1C5A425A72
40 :10E00B004A5A4B5A535C415C425C4A5C535C825C9F
:10E01B008A5E815E8A66036802680B6A016A026A1D
:10E02B000A6A136A426A4A6C416C4A000400050092
:10E03B000C000D000E001500160017001E001F002F
:10E04B00270048004C004D005100550056005A0067
45 :10E05B005E005F00630067009000910095009900DF
:10E06B009A009E00A200A700AB00D800D900E100E7
:10E07B00E200EA00F3012001210129012A0132010A
:10E08B003B0168016901710172017A02430244028A
:10E09B0045024C024D024E02550256025E025F02D1
50 :10E0AB00670288028C028D029102950296029A02F7
:10E0BB009E02A702D002D102D502D902DE02E203F0
:10E0CB001803190321032A03600361036903720315
:10E0DB00A803A903B103BA048304840485048C0444
:10E0EB008D04950496049E04A704C804CC04CD04A7

[0055]

[A table 30]

***NOTICES ***

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the block diagram of the suitable bar code reader for operation of this invention.

[Drawing 2] a part of drawing 1 -- it is an enlarged drawing.

[Drawing 3] It is the block diagram showing the program structure of the computer in the bar code reader shown in drawing 1 .

[Drawing 4] It is standard PDF417 bar code symbol which has an amount with information, and level with the error correction encoded in it.

[Drawing 5] It is standard PDF417 bar code symbol which has other informational amounts and other level with the error correction encoded in it.

[Drawing 6] It is standard PDF417 bar code symbol which has the informational amount of further others, and the level of further others of the error correction encoded in it.

[Drawing 7] It is the schematic diagram of the 2nd example of this invention.

[Drawing 8] It is the schematic diagram of the 3rd example of this invention.

[Description of Notations]

16 -- Light source

17 -- Photodetector (linear CCD array)

40 -- Microcontroller (decoder)

42 -- Static RAM (the 2nd part)

45 -- PEROM (the 1st part)

64 -- Decoding function (decoder)

116 -- Raster yie gin grazer

117 -- Two-dimensional CCD matrix

[Translation done.]

NOTICES

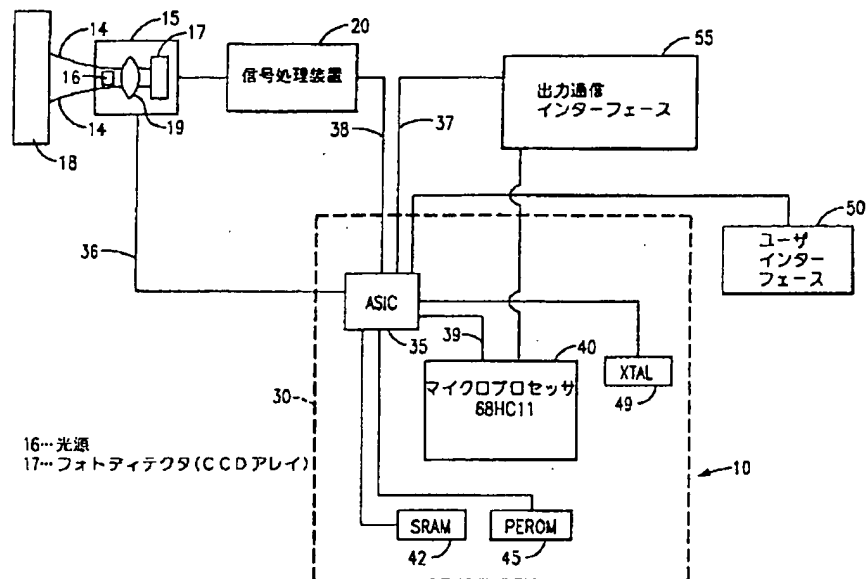
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DRAWINGS

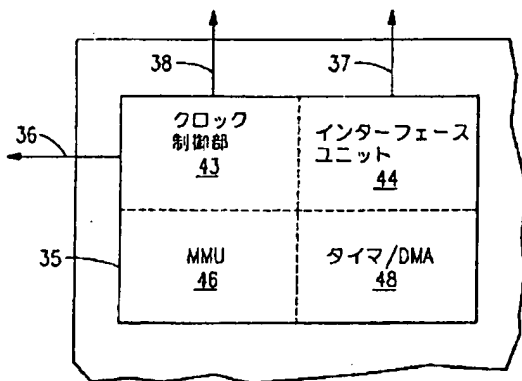
[Drawing 1]

本発明の実施に適切なバーコードリーダーのブロック図



[Drawing 2]

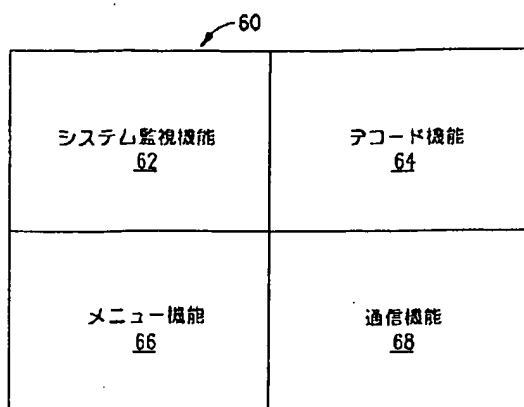
図1の一部拡大図



48...タイマ/DMAチャネル

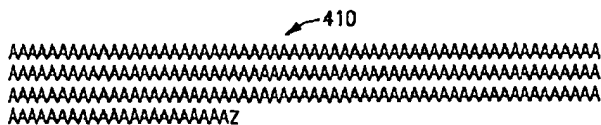
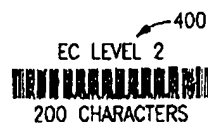
[Drawing 3]

図 1 におけるコンピュータプログラムの構造



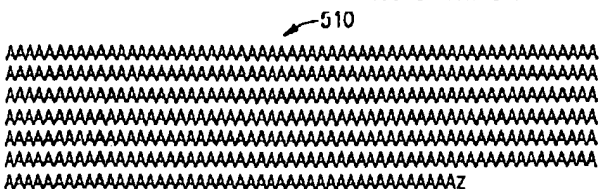
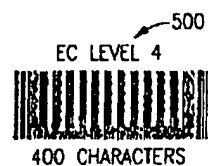
[Drawing 4]

エラー訂正レベル2



[Drawing 5]

エラー訂正レベル 4



[Drawing 6]

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CORRECTION OR AMENDMENT

[Kind of official gazette] Printing of amendment by the convention of 2 of Article 17 of Patent Law

[Category partition] The 3rd partition of the 6th category

[Publication date] April 11, Heisei 15 (2003. 4.11)

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[Date of Publication] September 13, Heisei 8 (1996. 9.13)

[Annual volume number] Open patent official report 8-2353

[Application number] Japanese Patent Application No. 8-2388

[The 7th edition of International Patent Classification]

G06K 7/10

7/00

[FI]

G06K 7/10 L

D

P

7/00 J

[Procedure amendment]

[Filing Date] January 9, Heisei 15 (2003. 1.9)

[Procedure amendment 1]

[Document to be Amended] Description

[Item(s) to be Amended] Claim 4

[Method of Amendment] Modification

[Proposed Amendment]

[Claim 4] Said microcomputer (30) is the bar code reader of the independence type according to claim 1 which has 64 K bytes or less of address space.

[Procedure amendment 2]

[Document to be Amended] Description

[Item(s) to be Amended] Claim 5

[Method of Amendment] Modification

[Proposed Amendment]

[Claim 5] Said 1st part (45) of said memory (42 45) is the bar code reader of an independence type [equipped with the read only memory (45) with the capacity of 32 K bytes or less] according to claim 4.

[Procedure amendment 3]

[Document to be Amended] Description

[Item(s) to be Amended] Claim 6

[Method of Amendment] Modification

[Proposed Amendment]

[Claim 6] Said 2nd part (42) of said memory (42 45) is the bar code reader of an independence type [equipped with random access memory (42) with the capacity of 8 K bytes or less for data storage] according to claim 4.

[Procedure amendment 4]

[Document to be Amended] Description

[Item(s) to be Amended] Claim 12

[Method of Amendment] Modification

[Proposed Amendment]

[Claim 12] A bar code reader is a portable hand carry type two-dimensional bar code reader according to claim 11 which consumes 1.4W or less on an average, and has the weight of 225g or less during read-out actuation.

[Procedure amendment 5]

[Document to be Amended] Description

[Item(s) to be Amended] 0004

[Method of Amendment] Modification

[Proposed Amendment]

[0004] Other two-dimensional bar code symbols are PDs417. PD417 is explained by Wong's (Wang) U.S. Pat. No. 5,243,655. When it summarizes simply, PD417 is the special two-dimensional (17 4) symbol of the family (n, k) of a bar code. At PD417, a codeword is formed by 17 bits which consists of combination from which Bar of four trains which form many legal patterns, and the tooth space between four trains differ. Each tooth space and the width of face of each bar can change in the unit of the arbitration of 1-6, as long as the total number of unit in a codeword is 17. In PDF417, an exclusive subset or an exclusive cluster is used for three each other of a set of a legal pattern, and each cluster contains 929 codewords. Each of a codeword can be arranged by t sequence (transfer sequence), and the map of the pattern within t sequence is carried out to the desired alphabet with a suitable translation table. In addition, t sequence is a sequence of the transition used in order to encode the data in a bar code symbol, for example, is a sequence of a tooth space etc. from Bar/Bar from a tooth space/tooth space from Bar.

[Procedure amendment 6]

[Document to be Amended] Description

[Item(s) to be Amended] 0024

[Method of Amendment] Modification

[Proposed Amendment]

[0024] Communication facility 68 contains a protocol required to offer hardware and hand over the scanned data to mounting equipment. The bar code reader 10 is supporting much the communications protocols and interfaces containing the terminal and keyboard of an optical character interface adapter laser output, (OCIA), OCR, RS-232, and various commercial scenes, and, as for current, only the RS-232 interface is programmed in it.

[Translation done.]